CONSTRUCTION NEWS

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Electric Railways.

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Duluth, Minn.
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Light and Power Plants.

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Bridges.

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Buildings.

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Water Supply—Irrigation.

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Streets and Roads.

State roads, Hartford, Conn.
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Manufacturing Plants.

Factories, Carteret, N. J.
Plow works, South Bend, Ind.
Cement plant, Gilmore City, Iowa.

Miscellaneous.

Piers, bulkheads, New York, N. Y.
Dredging, Norfolk, Va.
Dry dock, Levis, Que.

RAILWAYS.

BUFFALO, ROCHESTER & PITTSBURGH RY. CO.—This company is conpleting a ten mile cut off between Newton and Mount Jewett costing $1,000,000 and improvements on the Rochester Division, including enlarged terminal and passenger station facilities at Rochester costing $500,000.

CENTRAL R. R. OF N. J.—Geo. F. Baer, Prest., in his annual report to stockholders, says as follows regarding new construction:

"The sum of $4,000,000 out of surplus for the current year has been appropriated as a fund for additions and betterments, to cover in part the cost of proposed reconstruction and elevation of drawbridges over the Hackensack and Passaic Rivers, and of the approaches thereto; new piers at Jersey City, new equipment building at the company's shops and contracted for, installation of interlocking systems at various points, new engine terminals (Ashley and Scranton), construction of new signal bridges, grading and additional yard tracks at Jersey City, and various other similar operations. An extensive interchange freight yard is being constructed at Bethlehem Junction, in connection with the construction of a new interlocking crossover system. The large new interchange and classification freight yard at Allentown, which has been under construction for several years past, is now practically completed."

J. O. Osgood, 143 Liberty St., New York, is Ch. Engr.

CHESAPEAKE & OHIO R. R.—The contract for building several miles of timber trestles, extensive grading in and around Cincinnati, O., has been let, according to press reports to, JONES BROS., Columbus, O.

CLEVELAND, O.—It is estimated by Pennsylvania R. R. officials, according to press reports, that the total cost of the crossing elimination work will be $2,100,000, and the city's share approximately $800,000. Estimates made two years ago by the city engineering department put the total cost at $1,800,000, but did not include work necessary to eliminate the St. Clair avenue crossing.

Robert Hoffman is Ch. Engr., Dept. Pub. Service, Cleveland, O. Noted Aug. 25.

DELAWARE & HUDSON CO.—We are officially advised that although this company contemplates extensive improvements, such as erecting new shops, remodeling the yard, up to the present time the matter has not reached such a state that definite information can be given on the subject. Geo. H. Burgess, Albany, N. Y., is Ch. Engr.

LEHIGH & NEW ENGLAND R. R.—Papers were signed Sept. 26, which wil give a complete right of way to this road for an extension of 31 miles from its main line at Danielsville, near Slatington, to Tamaqua. The new road will cost $3,000,000. The securing of this right of way was the work of two years. It is expected that the construction will proceed at once.

The new line will connect more particularly the collieries of the Lehigh Coal and Navigation Co., and the whole anthracite region in general, with the shortest route to Boston, via the Poughkeepsie Bridge. The present shortest line is 170 miles long, but this will be 40 miles shorter. W. G. Himes, Bethlehem, Pa., is Engr. M. of W.

LEXINGTON & EASTERN RY.—A new line is projected according to press reports. This will continue from Jackson, the present terminus of the road, up the North Fork, (Kentucky River) through Hagard and Cornettsville, Perry county, and Whitensburg, in Letcher county, to the Virginia state line. The plan is to continue down the Elk Creek, making a connection with the Big Sandy extension of the Chesapeake & Ohio. John Marston, Jr., Lexington, Ky., is Ch. Engr.

LONG ISLAND R. R.—Grade crossing elimination plans have been filed with the Public Service Commission by the railroad. These call for the elimination of all crossings on the Flushing main line between the creek and Broadway. The plans call for the elevation of the road over Lawrence and Main and depression under Union, Bowne, Parsons, Wilson and Boerum, and overhead at Broadway. Twenty-second is to diverted or closed. A temporary trestle between the creek and Union will be built, passenger stations reconstructed and $130,000 worth of property purchased. The cost is calculated at $1,077,000 for this part of the improvement.

On the Whitestone branch four crossings are to be elevated.

J. R. Savage, Jamaica, N. Y., is Ch. Engr.

MOBILE TERMINAL & RAILWAY CO.—This road has acquired 24 acres of land fronting 700 feet on Mobile harbor, and plans general terminal facilities to include slips, docks, warehouses, trackage, etc. The capital stock is $500,000.

NEW YORK CENTRAL & HUDSON RIVER R. R.—Plans for the elimination of the dangerous grade crossing at Van Woert and North Pearl Sts., Albany, N. Y., have been completed and are in the hands of Mayor James B. McEwan for approval. In the event of his approval and the subsequent approval of the Public Service Commission, the New York Central Railroad Company will be in position to award the contract. According to the laws of New York, the company is to pay one-half the cost and the city and State each one-quarter. The plans provide for a plate girder bridge with a clearance of 14 ft. over the street. According to the plans, North Pearl St. will be depressed from Colonie St. to a point 275 ft. beyond Van Woert St., and Van Woert St. will be lowered from Broadway to a point about 600 ft. west of Broadway. The work will also require the condemnation of a number of buildings and the rearrangement of the sewer and water system. The railroad tracks will be raised two ft. above their present level and the curve now existing near the crossing will be eliminated. The northwest corner of Pearl and Van Woert Sts. will be treated so that vehicles and pedestrians passing around the corner will not necessarily pass under the bridge. George W. Kittredge, Grand Central Station, New York, is Ch. Engr.

PHILADELPHIA & READING R. R.—We are officially advised that bids will be received on Oct. 11, in Room 520, Reading Terminal, by William Hunter, Ch. Engr. of the Philadelphia & Reading Railway Company, for the following contracts:

Contract No. 22, Richmond Branch Elevated.—Masonry and embankment between Somerset Street and Trenton Avenue.

Contract No. 23, Richmond Branch Elevated.—Bridges ready for ballast between Somerset Street and Trenton Avenue.

This is otherwise known as the Abolishing of Grade Crossings along the Richmond Branch of the Philadelphia & Reading R. R. between Somerset St. and Richmond St.

ST. LOUIS SOUTHWESTERN RY.—A contract has been entered into, according to press reports, between this railroad and the citizens of Comanche County, Texas, whereby the road will extend its lines from Gatesville, through Hamilton to Comanche, a distance of about 70 miles. A part of the grading between Gatesville and Hamilton has been finished. It is believed that the line may be extended farther in a northwesterly direction and connect with the Texas & Pacific. Both roads are Gould properties. W. T. Ealon, Tyler, Tex., is Ch. Engr.

TEXAS.—The report of the railroad commission show that 976 miles of railroad are now actually in process of construction in Texas, as follows:

Paris and Mount Pleasant, 45 miles; Temple and Northwestern—Temple to Comanche, 104 miles; St. Louis and Southwestern—Gatesville to Hamilton, 30 miles; Gulf, Texas and Western—Redham to Seymour, 15 miles; Gulf, Colorado and Santa Fe—Lometa to Brady, 65 miles; Pecos and Northern Texas—Coleman to Texico, 310 miles; Fort Worth and Rio Grande—Brady to Menardville, 36 miles; Kansas City, Mexico and Orient—San Angelo to Del Rio, 200 miles; Chicago, Rock Island and Gulf—Findlay to State line, 15 miles; Missouri, Oklahoma and Gulf— Denison to State line, 10 miles; San Antonio south, 90 miles; Texas Central—De Leon Springs to Rising Star, 27 miles; Brownwood north and south, 17 miles; Bartlett and Florence, 12 miles, a total of 976 miles.

"The Houston Post" says: "It will be very interesting to observe just what effect the recently enacted International and Great Northern receivership law will have upon the further extension of railroads in Texas. Railroad attorneys and officials who have visited Austin since the enactment of the law are emphatic in the statement that the law will have the effect of utterly paralyzing the construction of railroads and that capitalists will await its repeal before they plan for the construction of another mile of road."

WESTERN MARYLAND RY.—Press advices are to the effect that plans have been formulated by the engineering department of the company for the building of a low-grade track to border the Blue Ridge mountains, thus abolishing the climb directly over them. Although this would result in lengthening the route about 12 miles, it would give it a lower average grade to Pittsburg in connection with the Pittsburg & Lake Erie than the Baltimore & Ohio. This extension would necessitate the expenditure of approximately $10,000,000. H. R. Pratt, Baltimore, Md., is Ch. Engr.

YOUNGSTOWN, O.—Officials of the Erie, Pittsburg & Lake Erie and Lake Shore railroads held a conference in this city recently in regard to the completion of the Lake Erie & Western Railroad, the grade separation and the Union station project. In the party were William K. Vanderbilt, Jr., assistant to the president of the New York Central Railroad; J. B. Yohe, vice president of the Pittsburg & Lake Erie Railroad; President Underwood of the Erie Railroad; D. C. Moon, general manager of the New York Central, and General Superintendent Schaff of the same company. It is estimated that the total improvement will involve about $4,000,000.

FOREIGN.—The Daily Consular & Trade Reports of the Bureau of Manufactures at Washington reports an extension of a narrow gage railway from Karachi, the chief wheat port of British India, to Hyderabad in the interior. Difference in gage and frequent interruption of traffic on existing lines by floods during the wheat season, interfere with the traffic at the most important portion of the year. The proposed new line is intended to correct this. A connecting link uniting Siamese with the Malay lines is also contracted for. In Italy plans are being made for a direct line between Genoa and Peacenza as far as Cremona. The Russian Government has decided to construct a railway direct from Odessa to Moscow by way of Bakahmach.

ELECTRIC RAILWAYS.

WATERVILLE, ME.—The Waterville & Oakland St. Ry. has filed a petition with the Board of Railroad Commissioners asking their approval of the location of their proposed extension from the center line of its present location on Elm St. to Spring St., thence along Spring and Silver Sts. to the junction of Silver and Main Sts. E. J. Lawrence is Pres.

NORRISTOWN, PA.—A grant for the extension of the Philadelphia & Western R. R. to West Conshohocken approved. The proposed extension will reach West Conshohocken over the Haverford Road, Old Lancaster Road, Chester & Radner Road, and Matson Ford Road. John Davey, Upper Darby, Pa., is Ch. Engr.

DILLSBURG, PA.—A company is being organized with a capitalization of $180,000 for the purpose of building a 14-mile electric railway from Dillsburg to Dover by way of Franklintown, Mountain Top, Wellsville, Rossville and the Picketts, connecting with the York and Dover St. Ry.

WILKES-BARRE, PA.—Officials of the Wilkes-Barre & Wyoming Valley Traction Co. are preparing to pay to Kingston Borough $16,000 for permission to allow the laying of tracks and operation of cars on Walnut and Division Sts., in that borough. According to the plans there will be a branch line which will go up Walnut St. and cross at Division to Wyoming Ave., coming down that section. At the intersection of Division and Walnut Sts., it is also planned to have another track running off to the left which will come back to Luzerne and will provide a shorter route to Dallas and Harvey's Lake. Work will be shortly started. Thos. A. Wright, Wilkes-Barre, Pa., is Gen. Supt.

FOSTORIA, OHIO.—We are officially advised that the grading will be finished in 30 days on the 21-mile line the Fostoria & Fremont Ry. Co. is building from Fostoria to Tremont. F. D. Carpenter, Lima, Ohio, is Pres. and J. W. S. Reigle, Findlay, Ohio, is Ch. Engr. Noted Aug. 25.

ELKHART, IND.—**An interurban railway is proposed, connecting Elkhart and Kalamazoo. There are two proposed routes from Bristol to Constantine, but from there to Kalamazoo one route only is being considered. Eugene Atkins, Elkhart, Ind., is interested.**

GILMAN, ILL.—Promoters of the Chicago, Kankakee & Urbana Electric Ry. are consulting contractors for road building and for the purchase of steel for the construction of the proposed line through Gilman, Onarga and other towns in the west part of Iroquois County. They have reported that the road has been financed and will be built without delay. As soon as the contracts have been awarded work of construction will begin at Kankakee and be carried south through Iroquois County, running parallel with the Illinois Central to Urbana, the University City, and will then be continued to Charleston via Villa Grove. A power plant will be built at Urbana and another will be constructed at Kankakee to furnish the electric power for the line. Geo. M. Bennett, Urbana, Ill., is Pres.

CHICAGO, ILL.—The Chicago City Ry. Co. is receiving proposals for furnishing rails and ties with which to carry forward the work of rehabilitation of the lines of the Consolidated Traction Co. The purchases will include 6,000 tons of steel rails and between 45,000 and 60,000 ties. H. B. Fleming, First National Bank Bldg., Chicago, is Ch. Engr.

DULUTH, MINN.—A resolution in the matter of extending the lines of the Duluth St. Ry. Co. on Grand Ave. to Fond du Lac, has been passed by the Council. The resolution directed the city engineer to lay out a suitable route for the street car extension to Fond du Lac, through Ironton, Smithville, the steel plant and New Duluth. J Carson, Duluth, Minn., is Ch. Engr.

LITTLE ROCK, ARK.—The Little Rock & Hot Springs Electric Ry. will, according to press reports, let contracts within the next month for the construction of its line from Little Rock to Hot Springs. L. Garrett, 219½ Main St., Little Rock, Gen. Mgr.

MUSKOGEE, OKLA.—General Manager G. D. Long, of the Muskogee Electric Traction Co., has secured the consent of the Missouri, Kansas & Texas Ry., through Pres. A. A. Allen, to construct a grade crossing over its main line at South Side Boulevard. Without the granting of this concession the traction company would have been unable to construct an extension of its South Third St. line to the fair grounds.

PHOENIX, ARIZ.—The Phoenix Ry. Co. announces that $125,000 to $135,000 will be expended during the year on extension and new rolling stock for the local and interurban electric lines. Ten miles of track is to be constructed to extend the Indian School line to Glendale and new rails are to be laid on other lines. Samuel N. Mitchell is General Mgr.

NIAGARA FALLS, ONT.—It is stated the Niagara, St. Catharines & Toronto Ry. Co. is planning an extension from Fonthill to Fernwick and the establishment of passenger service to the last-named point. Definite announcement of its plans has not yet been made by the company.

NIAGARA FALLS, ONT.—The Niagara, Welland & Lake Erie Railway Co. has given notice that it will apply to Parliament at its coming session for power to construct an electric railway line from Niagara Falls to points on Lake Erie between Fort Erie, opposite Buffalo, and Port Dover, via Welland and Port Colborne.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

AUBURN, ME.—The City Council has awarded to the LEWISTON & AUBURN ELECTRIC LIGHT CO. contract for lighting the streets of the city for a period of five years, at $55 per lamp per year. Harry Edgcomb is Ch. Engr.

BONNY EAGLE, ME.—Contract for the construction of a 60-ft. dam and power-house for an 8,000-HP. hydroelectric development on the Saco River, at Bonny Eagle, has been awarded to the F. W. ABBOTT CO., 90 West St., New York, by the Cumberland Construction Co. J. G. White & Co., 43 Exchange Pl., New York, have charge of construction of the plant.

BOSTON, MASS.—Louis K. Rourke, Supt. of Sts., has withdrawn the call for bids for a 2-year contract for lighting the streets and has decided to ask for bids for a 5 or 10-year contract for lighting the streets, parks and alleys by either gas or electricity. The Rising Sun Street Lighting Co. now has contract, which expires on Feb. 1, 1911.

FALL RIVER, MASS.—Contracts have been awarded for power plant equipment for the Charlton Mills as follows: To the PROVIDENCE ENGINEERING WORKS, of Providence, R. I., for one 10,000-HP. Rice & Sargent, cross-compound steam engine; to the WESTINGHOUSE ELECTRIC & MFG. CO., 716 Board of Trade Bldg., Boston, for an 850-HP. low-pressure steam turbine to generate electricity to operate the weaving mill, elevators and some of the spinning machines. The turbine will be operated by exhaust steam from the main engine.

WORCESTER, MASS.—Plans have been completed for enlarging the Millbury plant of the Worcester Consolidated Street Ry. Co. to supply electricity for operating the entire system. The plans include the erection of a substation in Worcester, at Beacon and Madison Sts. Power from the Millbury plant will be transmitted to Worcester over lines carrying 3-phase current at 13,000 volts, which will be erected on private right-of-way. Orders have been placed for equipment of power plant at Millbury and substation in Worcester, which, it is said, will call for an expenditure of about $500,000 and will include a General Electric 5,500-KW., 13,000-volt, 3-phase, 25-cycle turbo-generator set; two rotary converters, switchboards, transformers, etc.; also four water tube boilers with a total rating of 11,360 HP. The power station of the company at Fremont St. will be used as an auxiliary station when the Millbury plant is completed. George W. Dunlap, Springfield, is Engr. Power Station.

NEW YORK, N. Y.—Bids are asked by the Board of Health until 10 a. m., Oct. 6, for furnishing and delivering electric supplies and materials, as required, to the Tuberculosis Sanitorium, Otisville, N. Y.

BROOKLYN, N. Y.—Bids will be received by C. B. J. Snyder, Dept. of Education, corner of Park Ave. and 59th St., New York City, Superintendent of School Buildings, until 3 p. m., Oct. 10, for installing electric equipment in new Public School 167, on Eastern Parkway, Schenectady Ave. and Lincoln Place; also for fireproof stairways at Public School 37, at South Third and South Fourth Sts., near Berry St.

JAMESTOWN, N. Y.—The power-house of the Selisbury Wheel Co., leased and used as a generating plant by Fred. Sprague for the electric lighting of the streets of Falconer, a suburb of Jamestown, and destroyed by fire on Sept. 21, will be rebuilt.

*ALLENTOWN, N. J.—Bids are asked by Charles S. Joimer, Boro. Clerk, until 8 p. m., Oct. 19, for constructing a municipal electric lighting plant. The work contemplated consists in furnishing and installing one 25-KW., d. c., 3-wire generator, 250 volts; one 30-HP. internal combustion engine; one 15-ampere, 8-hour storage battery; 2¾ miles transmission lines; street lights, switch board, shafting and equipment within the power-house. A. Robinson is Mayor; W. W. Young is Consult. Engr., 220 Broadway, New York, and Drexel Bldg., Philadelphia, Pa.

BAYONNE, N. J.—The Texas Co., 17 Battery Pl., New York, will erect from private plans a power plant at its works in Bayonne. The new building will be of reinforced concrete construction, five stories high, 50 × 100 ft. Estimated cost, $50,000.

PHILADELPHIA, PA.—Bids are asked by the Commanding Officer, Frankford Arsenal, Philadelphia, until 10 a. m., Oct. 10, for the alteration and extension of the boiler plant.

SYKESVILLE, MD.—The Board of Directors of Springfield State Hospital for the Insane, on Sept. 21, selected Henry Adams, Engr., to prepare plans for a new central power-house and heating plant to be erected at the institution at Sykesville. Estimated cost, $15,000.

*WASHINGTON, D. C.—Bids are asked until 2 p. m., Oct. 8, by the Department of the Interior, Washington, for the construction of a radial brick chimney for the power plant at the Freedmen's Hospital and Howard University, Washington.

WASHINGTON, D. C.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, until Oct. 5, for furnishing and installing lighting fixtures in the U. S. buildings at Belvidere, Ill.; Elizabeth, N. J.; Elgin, Ill.; Manhattan, Kan.; North Adams, Mass.; Plattesville, Wis.; Rawlins, Wyo.; Saratoga Springs, N. Y.; Albany, Ga., and Roanoke, Va.

GREENSBORO, N. C.—The Southern Power Co., Charlotte, N. C., will soon begin the construction of an auxiliary steam power plant of 10,000 HP., equipment to include either one 10,000-HP., two 5,000-HP., or possibly three turbines, brick building, boiler-room about 200 ft. long. A reservoir covering seven or eight acres, with a depth of 5 or 6 ft., will be located nearby. Contract for machinery has been awarded. Contract has been awarded to the DIXIE CONCRETE CO., Greenville, S. C. Estimated cost, $250,000.

GREENVILLE, S. C.—The River Falls Co. will install an electric-light, water-works and a sewer system. W. H. Patterson, 231 Candler Bldg., Atlanta, Ga., may be addressed.

CHARLESTON, S. C.—The Charleston Consolidated Ry. & Lighting Co., George H. Waring, Gen. Mgr., has awarded contract to GADSDEN CONTRACTING CO., Savannah, Ga., to build the foundation for the power-house at foot of Charlotte St. on Cooper River. The foundation will be of piling with concrete base, requiring 1,700 60-ft. piles. Power-house will be 120 ft. square, two stories, brick or cement with brick stack 200 ft. high. Machinery will consist of 1,000-KW. turbine generator, two 2,000-KW. turbine generators, three 500-KW. railway motors, two 100-KW. turbine exciters, 35-KW. motor generator exciter with switchboards, wiring, piping and connections; intake and discharge condensers, artesian well and boilers of 3,000 HP. capacity, 1,000-KW. turbo-generator with switchboard, exciter and other adjuncts. Plans are being prepared by the company's engineers. Estimated cost, $200,000.

BERRY, GA.—See item under Manufacturing Plants.

JACKSONVILLE, FLA.—We are officially advised that plans for the new municipal power plant have not yet been completed. Bids for construction will probably not be asked for several months. R. N. Ellis is Supt. Noted on Sept. 15.

YOUNGSTOWN, OHIO.—Bids will be received at the office of the Board of Education of City School District, 29 West Federal St., until noon, Oct. 11, for furnishing all material and labor to install sanitary and heating apparatus in the proposed school buildings to be erected as follows: One 16-room building at Brier Hill, Kling & Zenk, Archs.; one 16-room building on Wood St., C. F. Owsley, Arch.; one 12-room building on the corner of Truesdale and Charlotte Aves, R. F. Thompson, Arch. Each bidder must prepare his own plans and specifications, and the price of labor and material must be separately stated.

MILLER, IND.—Bids will be received by the Town Board of Trustees, at the office of M. J. Zelibor, Town Clk., until 2 p. m., Sept. 30, for building and equipping an electric lighting system.

ST. CHARLES, MICH.—The citizens have voted to issue $14,000 of bonds for the construction of a municipal electric lighting system.

DETROIT, MICH.—Smith, Hinchman & Grylls, Archs., Detroit, are preparing plans for the construction of an addition to the municipal power plant.

CENTERVILLE, MICH.—Plans are being prepared by Vance I. Gray, 226 Huron St., Toledo, Ohio, for a new electric light plant and water-works system for the Centreville Water & Light Co., F. W. Thomas, 1919 Monroe St., Toledo, Secy.

PERU, ILL.—The City Council has let contract to LOVE BROS., of Aurora, Ill., for the installation of a lighting system here.

MEDFORD, WIS.—Bids will be received by T. G. Jeffers, City Clk., until 7.30 p. m., Sept. 30, for one 50-HP. gas engine and 50-HP. suction gas producer with all fittings and fixtures complete; also one 500-gallon belt-driven triplex power pump with necessary equipment. Specifications are on file at the office of the City Clerk, Medford, and at 31 Vroman Bldg., Madison, Wis. W. G. Kirchoffer is Engr.

FORT DODGE, IOWA.—The Fort Dodge, Des Moines & Southern R. R. Co. is contemplating the erection of a substation this fall, to be equipped with transformers and two rotary converters with a rating of 400 KW. each. Frank Arnold, Boone, Iowa, is Supt.

CANBY, MINN.—Bids will be received until Nov. 3 by the City Recorder for certain electrical equipment for use in operating a sewage pump. John S. Dodds, City Engr.

FAIRMONT, MINN.—The citizens have voted to issue $30,000 for improvements and extensions to the municipal electric light plant.

STARBUCK, MINN.—The village desires prices on a 50-HP. or 55-HP. Corliss engine and boiler, complete, for the municipal light and water plant. A. H. Dreyes is Supt.

AURORA, MINN.—The City Council has awarded contract for lamp standards to be used in connection with the installation of an ornamental street lighting system to the THOMPSON & STEWART CO., of Duluth, Minn.

RUSSELL, KAN.—Contract for the construction of an electric light plant here has been let to the WESCO SUPPLY CO., Seventh and Clark Aves., St. Louis, Mo., at $29,680. Burns & McDonnell are Engrs., Scarritt Bldg., Kansas City, Mo.

OAKLEY, KAN.—Contract for the construction of an electric light plant here has been awarded to the WESCO SUPPLY CO., Seventh and Clark Aves., St. Louis, Mo. Burns & McDonnell are Engrs., Scarritt Bldg., Kansas City, Mo.

REDFIELD, S. DAK.—Bids will be received by the City Council until Oct. 3, for a boiler for the municipal electric light plant. H. T. Patch is City Audr.

ATKINS, ARK.—W. F. Turner and J. W. Barker, of Atkins, Ark., have been granted a 50-year franchise by the Town Council to install an electric light plant here.

HAMBURG, ARK.—The Board of Commissioners of the Hamburg Improvement District has awarded contract for the installation of an electric light plant and water-works system to W. J. KENNEDY, of St. Louis, Mo. Estimated cost, $30,000. Willis E. Ayres, 370 Randolph Bldg., Memphis, Tenn., is Engr.

TEXAS CITY, TEX.—See item under Water Supply—Irrigation.

HOUSTON, TEX.—Contract has been awarded to WILLIAM MILLER & SONS CO., of Houston and Pittsburg, for the construction of the power plant and engineering laboratory for the William M. Rice Institution here, at $182,430. The building will be about 200 ft. long, two stories high.

LAREDO, TEX.—The Border Gas Co., Laredo, will install a distributing system in this city.

STILLWATER, OKLA.—The Oklahoma Public Service & Interurban Ry., R. A. Sturgeon, Ch. Engr., will construct a power-house.

TULSA, OKLA.—The Tusla Corporation, P. M. Galloway, Supt., will install an alternator in the electric-light plant, machine of 500-KW. capacity, driven by turbine engine, two boilers, each with capacity of 500 HP., and condensers, turbine and generator will be of horizontal type.

DENVER, COLO.—The Denver Gas & Electric Light Co. is preparing plans for the installation of a steam heating system here.

IRONDALE, WASH.—The Western Steel Corporation has awarded contract to the OLYMPIC POWER & DEVELOPMENT CO. for furnishing 2,500 HP. within eighteen months, for use in connection with its steel plant in Irondale, with an option of 2,500 HP. additional after the first 2,500 HP. shall have been delivered. The Olympic Power & Development Co. is now constructing a power plant on the Elwah River, six miles from Port Angeles, at a cost of about $500,000.

WHITTIER, CAL.—The Southern California Edison Co., B. F. Pearson, Supt., Los Angeles, will extend its power lines to East Whittier to supply light and power to the various oil fields.

BARSTOW, CAL.—The Atchison, Topeka & Santa Fe R. R. Co. has appropriated $75,000 for the purpose of erecting an electric lighting plant here to furnish light and heat to the new depot, Harvey House and other buildings of the company. The equipment will consist of two Curtis turbine engines of 150 HP. each with G. E. generators. Capacity of plant, 200 KW.

BAKERSFIELD, CAL.—The Midway Light & Power Co. has been incorporated here with a capital of $250,000 for the purpose of generating, distributing and transporting light, heat and power. The plants will be located at Maricopa and Moron, with headquarters at Los Angeles. The stockholders and directors are: Harry L. Dearing and Herbert Williams, of Los Angeles; B. F. Hughes, of Sierra Madre; Herbert J. Goudge, of Alhambra, and Chas. T. Chandler, of South Pasadena.

BAKERSFIELD, CAL.—We are officially advised that T. G. WHITE & CO., Engrs. and Contractors, 43 Exchange Place, New York, have been awarded contract by the Power Transit & Light Co., J. E. Baker, Supt. and Ch. Engr., Bakersfield, for the engineering and construction of steam and electric power plant, 82 × 140 ft., with concrete substructure, self-supporting steel frame, and walls of metal lath and plaster. The plant will be designed to accommodate two 2,000-KW. horizontal turbines, with boilers, condensers and necessary auxiliaries. A 750-KW. turbine will be temporarily installed as soon as possible. The station will be designed electrically to deliver practically full load at either 60,000, 10,000 or 2,300 volts, operating at all the above pressures simultaneously. Estimated cost, $400,000.

LONG BEACH, CAL.—H. W. Burkhart has awarded contract to the STACEY MFG. CO., Cincinnati, Ohio, for the installation of one steel plate gas holder tank with a 3-lift gas holder installed therein together with guide frame and three 24-in. diameter connections for inlet and outlet at the plant of the Southern California Edison Co. at Long Beach. Cost, $42,000.

RICHMOND, CAL.—The Board of County Supervisors has granted the Richmond Light & Power Co. a franchise to erect transmission lines along the public highways of the county.

LOS ANGELES, CAL.—H. J. Leland, City Clk., will receive bids until 11 a. m., Oct. 11, for a certain franchise granting right to construct and for a period of 21 years to maintain and operate a tunnel and pipe therein, and during said term to conduct, carry and transmit steam through such pipe line or lines for heating purposes. Franchise commences at intersection of South Broadway and West Eighth St., then south along Broadway for a distance of 400 ft.

The Los Angeles Gas & Electric Corporation has awarded contract to the WESTERN BOILER WORKS for constructing one 16-in. and one 12-in. riveted steel discharge pipe, with fittings, etc.; two 12-in. riveted suction pipes of centrifugal pumps, and one 24-in. riveted clear water return steel pipe, with fittings, etc., running from Macy St. yards to reservoir of cooling tower at gas works at Aliso and Center Sts, at $5,000.

LEAMINGTON, ONT.—Bids will be received by R. M. Selkirk, Town Clk., until Oct. 1, for the installation of an electric street lighting plant.

YORKTOWN, SASK.—Bids will be received until noon, Oct. 11, by T. F. Acheson, Secy.-Treas., for apparatus for an electric light plant, as follows: Section (1) boilers; (2) engines, piping, etc.; (3) generators, switchboards and arc lamps; (4) transformers; (5) meters. W. E. Skinner, Ltd., Consulting Engrs., Winnipeg.

WINNIPEG, MAN.—The CANADIAN BRITISH INSULATED CO., of Montreal, has been awarded contract for supplying the city's power department with 46,000 ft. of 13,000-volt, 3-core cable at $1.12 per ft. or $51,520.

BRIDGES.

*(*Denotes that this work is advertised in Engineering News.)*

*VAN BUREN, ME.—Bids for the construction of the bridge between Van Buren, in Aroostook County, and St. Leonard's, N. B., over the St. John River, were received on Sept. 9. On the superstructure, foundations and abutments Elie Roy, of Lewiston, bid $22,254; Powers Brewer, of Grand Falls, N. B., $23,895; E. J. O'Kelley, of Toronto, $25,145, and J. L. Perkins & Son, of Fairfield, $30,598. On the superstructure: The Canton Bridge Co. of Canton, $51,082; Boston Bridge Co., $47,452; Pennsylvania Steel Co., 54,000; American Bridge Co. of New York, $50,000; Penn Bridge Co. of Beaver Falls, Pa., $40,991. The amount appropriated was $37,500. New Brunswick is to expend a like sum.

BOSTON, MASS.—Bids will be received until Oct. 6 by Louis K. Rourke, Supt. of Streets, for repairing the drawbridge at Dover St.

SALEM, MASS.—The Committee on Streets has awarded the contract for the piling to be driven on the south side of the Union bridge to support the new draw, to PITMAN & BROWN at 25 cts. per lin. ft.

ALBANY, N. Y.—See item under Streets and Roads.

TARRYTOWN, N. Y.—The N. Y. Central & Hudson River R. R. Co. and the village of Tarrytown have agreed upon the plan of eliminating the grade crossing and plans have been submitted to the Public Service Commission. The total cost is estimated at $340,000. G. W. Kittredge is Chief Engr. N. Y. Central R. R.

NEW YORK, N. Y.—See item under Streets and Roads.

NEW HOPE, PA.—The contract for the construction of a bridge in Bucks County has been awarded CARL R. CAMP, of Montrose, at $20,000.

BIRDSBORO, PA.—Contract has been let to J. Z. HORNING for 24,000 ft. of plank for the proposed county bridge.

NORRISTOWN, PA.—Bids will be received by the commissioners of Montgomery County until 11 a. m. Oct. 11 for the construction of a stone arch hi ay bridge over the northeast branch of t Perkiomen Creek. John H. Dazer is City gr.

READING, PA.—The Grand y is considering plans for the constr on of a bridge to replace the old one a he foot of Penn St. A report of Boller & dge, Consult. Engrs. of New York, was with the jurors. Estimated cost, $300,0

ALLENTOWN, PA.—Bids wil received by the Board of County Comm ners until 10 a. m., Oct. 3, for the constr on of the superstructure and substructure a 2-span reinforced concrete bridge over Ontelaunee Creek. Plans and specifica s are on file in the office of the County mmissioners. J. S. Troxell is Clerk.

ALLENTOWN, PA.—Bids will received until 10 a. m., Oct. 10, by the ty Commissioners for alterations and re rs to the Linden St. bridge across Jordan reek. J. S. Troxell is Clerk to the Comn.

FRANKLIN, PA.—The Vena County Commissioners have received t following bids for the proposed steel bridg er Sugar Creek: Nelson-Merydith Bridge ., Chambersburg, Pa., $4,188; Ferro-Co rete Co., Harrisburg, Pa., $3,500; Penn dge Co., Beaver Falls, Pa., $4,829; York idge Co., York, Pa., $4,600. The Nelson-M dith Co. also submitted a bid of $11,536 r a concrete bridge.

WILMINGTON, DEL.—Plans ve been completed for the construction of a bridge across Smyrna Creek to connect the counties of Kent and New Castle.

GREENVILLE, S. C.—See item under Light and Power Plants.

COLUMBUS, GA.—Plans are being prepared for the construction of a steel bridge across the Chattahoochee River at 26th St. Estimated cost, $50,000. W. C. Campbell is City Engr.

LEXINGTON, MISS.—Contract has been awarded the W. T. YOUNG BRIDGE CO. of Nashville, Tenn., for the construction of a drawbridge.

FULLERTON, LA.—The Gulf & Sabine River Railroad, T. H. Fullerton, president, will construct 11 bridges in connection with construction of railroad from Fullerton to Leesville, La.

NEW ORLEANS, LA.—Formal notice has been served on Milton H. Smith, Pres. of the Louisville & Nashville R. R. Co., to construct a drawbridge at Chef Menteur. W. H. Courtney is Ch. Engr.

EAST PALESTINE, OHIO.—The Board of County Commissioners of Columbiana County awarded the contract on Sept. 10 for the erection of a reinforced concrete bridge in the western end of the village to H. T. NISLEY at $4,635.

CINCINNATI, OHIO.—Bids will be received by the County Commissioners until noon Oct. 14 for the construction of a concrete bridge on the Cleves and Warsaw pike. Fred Dreihs is Clerk to Comn.

NEW BERLIN, OHIO.—A contract has been awarded to PETER SCHISSLER, of Canton, Ohio, for building the abutments for the Roush bridge over Zimler ditch.

JASPER, IND.—Bids will be received by the County Commissioners until 1 p. m., Oct. 4, for constructing two bridges and repairing one. A bridge of reinforced concrete is to be built over Cane Creek and the other is to be in Ferdinand Township. M. A. Sweeney is Audr.

LAPORTE, IND.—Bids will be received by the Board of Commissioners of Laporte County until 10 a. m. Oct. 6 for the construction of the Boss concrete culvert and for the construction of a steel bridge with concrete abutments on the Laporte-Valparaiso road. Plans and specifications are on file in the office of Charles N. Miller, Audr.

INDIANAPOLIS, IND.—The Commissioners of Marion County will soon ask for bids for the construction of a bridge over White River at the Marion and Hamilton County line. Estimated cost, $5,600. Albert Sahm is County Audr.

The Commissioners of Marion County will receive bids until 10 a. m., Oct. 8, for the construction of a bridge over William Creek and five concrete culverts, four in Wayne Township and one in Washington Township. Albert Sahm is Audr.

JOLIET, ILL.—A contract has been awarded the JOLIET CONSTRUCTION CO. for construcing the reinforced concrete bridge to replace the Jackson Creek bridge at South Chicago St. Cost, $5,200.

JANESVILLE, WIS.—At a recent election the citizens of Janesville voted to issue $[illegible]-000 of bonds to be used for the construction of two bridges across the Rock River. One will be at Racine St. and the other will replace the present structure on Fourth Ave.

DULUTH, MINN.—The HEYLL-PATTERSON CO. has secured the contract for the extension of the bridges on the east side of the Coal Dock No. 1 of the Northwestern Fuel Co. The extension will be 68 ft. to the south end of the dock.

MINNEAPOLIS, MINN.—The Chicago, Milwaukee & St. Paul Ry. Co. will construct a reinforced concrete double-track bridge consisting of two 25-ft. and two 16-ft. spans. Estimated cost, $20,000. William Pierce Cowles, 925 New York Life Bldg., is Des. Engr.

KANSAS CITY, KAN.—Plans are being prepared for the construction of the Fifth St. and the Twelfth St. bridges by the Kaw Valley Drainage Board and the Wyandotte County Commissioners.

PLATTSMOUTH, NEB.—Plans are being prepared for the construction of a highway bridge over the Platte River. It will consist of four 86-ft. spans with a 16-ft. roadway. J. H. Pollack, of Plattsmouth, and R. A. Duff, of Nebraska City, are interested.

PAWNEE CITY, NEB.—Bids will be received by the County Commissioners until 10 a. m., Oct. 4, for the construction of the following bridges: 1 20-ft. bridge between Sections 4 and 9, Town 3, Range 9; 1 20-ft. bridge between Sections 25 and 26, Town 3, Range 9; 1 20-ft. bridge between Sections 17 and 20, Town 3, Range 10; 1 20-ft. bridge between Sections 14 and 15, Town 3, Range 10; 1 [illegible] bridge between Sections 8 and 17, Town 3, Range 11; 1 32-ft. steel bridge between Sections 24 and 25, Town 3, Range 11; 1 20-ft. bridge between Sections 11 and 14, Town 3, Range 12; 1 20-ft. bridge between Sections 10 and 15, town 3, Range 12; 1 26-ft. steel bridge between Sections 14 and 15, Town 2, Range 9; 1 20-ft. bridge between Sections 10 and 15, Town 2, Range 9; 1 20-ft. bridge between Sections 18 and 19, Town 2, Range 10; 1 20-ft. bridge between Sections 15 and 22, Town 2, Range 10; 1 20-ft. bridge in center of Section 28, Town 2, Range 11; 1 18-ft. bridge between Sections 10 and 15, Town 2, Range 11; 1 20-ft. bridge, Section 20, Town 2, Range 12; 1 20-ft. bridge, Section 27, Town 2, Range 12; 1 24-ft. bridge between Sections 10 and 11, Town 1, Range 12; 1 14-ft. bridge between Sections 16 and 17, Town 1, Range 12; 1 16-ft. bridge between Sections 23 and 24, Town 1, Range 11; 1 14-ft. bridge between Sections 1 and 12, Town 1, Range 11; 1 24-ft. bridge between Sections 22 and 23, Town 1, Range 10; 1 32-ft. steel bridge between Sections 3 and 4, Town 1, Range 10; 1 16-ft. bridge between Sections 1 and 2, Town 1, Range 9; 1 14-ft. bridge between Sections 19 and 20, Town 1, Range 9. R. R. Mahan is County Clerk.

CARTHAGE, MO.—The following contracts have been let by the County Court: The **ILLINOIS STEEL BRIDGE CO.** will build the bridge at Margrave Ford, at $4,350; the **VINCENNES BRIDGE CO.** of Vincennes, Ind., for building the Hall Ford bridge across Spring River, at $11,646; the **MASSILLON BRIDGE & STRUCTURAL CO.** of Massillon, Ohio, will erect the Scotland bridge across Grove Creek, at $6,312.

HELENA, ARK.—We have been officially advised that the contract for constructing a steel and concrete bridge has been awarded the **JOLIET BRIDGE & IRON CO.** at about $3,000. John M. Quarles is Road Comr.

MARIANNA, ARK.—Bids are asked by W. T. Derrick until 3 p. m., Oct. 4, for construction of a steel highway bridge, 420 × 16 ft., across L'Anguille Lake, near Marianna.

CENTER POINT, ARK.—Appropriations for the construction of two steel bridges at the juncture of Big and Little Creeks and at Mine Creek will be made by J. G. Lain, County Judge.

DAVENPORT, WASH.—Bids are asked by the Board of County Commissioners of Lincoln County until 10 a. m., Oct. 7, for the construction of the following steel bridges: One 80-ft. steel span over Wilson Creek, between Sections 8 and 9; one 32-ft. steel span in Lords Valley, between Sections 21 and 22; one 40-ft. steel span over dry branch of Crab Creek at Irby, a station on the Great Northern R. R.; one 32-ft. steel span in Section 28; one steel bridge between Sections 34 and 35. The profile and specifications are on file in the office of the County Engr. at Davenport.

SEATTLE, WASH.—Application has been made to the Secretary of War for a permit for the construction of the Stone Way trestle bridge across the west end of Lake Union. It will be 1,700 ft. long, with a 44-ft. roadway. R. H. Thomson is City Engr.

The Chicago, Milwaukee & Puget Sound Ry. Co., which suffered heavy losses from burned-out bridges in the Idaho and Montana forest fires last month, has instructed E. J. Pearson, Ch. Engr., Seattle, to begin at once on the work of fireproofing all bridges on the lines through the forests. Bridges that cannot be filled in will be reconstructed of steel and concrete.

SEATTLE, WASH.—R. H. Thomson, City Engr., has been authorized by the finance committee of the City Council to expend $40,000 for a drawbridge over the west waterway, and work is to be begun immediately.

SPOKANE, WASH.—Plans for a concrete bridge to span Hangman Creek have been prepared by Norton Macartney, City Engr.

SACRAMENTO, CAL.—The contract for the construction of the bridge at the foot of M St. has been awarded to the **MISSOURI VALLEY BRIDGE & IRON CO.**, of Leavenworth, Kan.

LOS ANGELES, CAL.—Plans have been completed for the construction of a concrete bridge at Vermont Ave. Homer Hamlin is City Engr.

LOS ANGELES, CAL.—I. B. Noble, County Surv., 121 North Spring St., has completed plans for a bridge to be erected across the Arroyo Seco on Pasadena Ave. The total length will be 2,000 ft. It will consist of two 60-ft. reinforced concrete arches. Estimated quantities are: Concrete, 5,297 cu. yds.; reinforcing steel, 102,764 lbs.; earth fill, 161,700 cu. yds., 194 ft. of 30-in. concrete pipe, 118 ft. of 12-in. vitrified pipe, 2,695 sq. ft. of pine fence, and 2,780 lin. ft. of redwood curb. The estimated cost is $128,000. Bids will be called for soon.

VENTURA, CAL.—The sum of $275,000 recently was voted at special election for the construction of 41 bridges and culverts throughout the county.

SAN BERNARDINO, CAL.—The County Supervisors are planning the construction of three reinforced concrete bridges. One will be a 40-ft. bridge over Bear Creek. Leffler Bros. will probably receive the contract.

EUREKA, CAL.—The County Supervisors have let a contract to the **PACIFIC CONSTRUCTION CO** of San Francisco for constructing a 7-span reinforced concrete bridge over the Eel River, twelve miles south of this city. The bridge is to be 2,900 ft. long, including approaches, and 24 ft. wide and constructed to accommodate the electric railway track in addition to the roadway for general traffic. Estimated cost, $250,000.

STOCKTON, CAL.—Bids will be received by E. D. Graham, County Clerk, until 10 a. m., Oct. 3, for raising Bellota bridge over Mormon Channel and constructing concrete retaining walls at each end. Also for construction of steel span bridge over French Camp Slough. R. C. Tumelty is City Engr.

UKIAH, CAL.—Bids will be received until 4 p. m., Oct. 4, by the Board of Supervisors for the construction of a bridge across the Little Lake and Potter Valley road.

Bids will also be received until Oct. 31 for the construction of a bridge across Russian Gulch.

OAKLAND, CAL.—The **HYDE HARJES CO.**, lowest of seven bidders, has been awarded a contract for construction of a combination bridge over Alameda Creek, near Brightside, in Niles Canyon. Work is to cost the county $8,873.

SANTA ROSA, CAL.—F. L. Wright, County Clerk, has been instructed to advertise for bids for construction of a bridge across flat side of the main county bridge over Russian River at entrance to Healdsburg, at the place known as Grant's Gravel Bar. It will be a trestle bridge and be about 320 ft. long.

DAUPHIN, MAN.—The **ALGOMA STEEL BRIDGE CO., LTD.**, has been awarded the contract for the construction of a steel bridge across the Vermilion River at $4,350. The bid of the Manitoba Bridge & Iron Works Co. was for $4,300 and concrete work extra at $15 a cu. yd.

FORT WILLIAM, ONT.—Bids are being asked by the Canadian Pacific Ry. Co. for the construction of piers and abutments for a bridge across the McKellar River. Plans and specifications on file in the office of Frank Lee, Div. Engr.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

BEVERLY, MASS.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Beverly to **HENRY MERRITT WALLIS**, Beverly, at $57,000. Time for completion, Oct. 1, 1911. Bids were received on Sept. 8, list of which was given on Sept. 15.

NEW YORK, N. Y.—Bids will be received until 2 p. m., Oct. 6, by Kingsley L. Martin, Comr., Dept. of Bridges, for the construction of an extension of the garage under the Brooklyn Bridge, in the Boro. of Brooklyn.

NEW YORK, N. Y.—Plans for the following buildings were filed recently: A 6-story brick apartment, 100 × 139.11 ft., at the southwest corner of Broadway and 135th St., for Daly & Carlson, 44 East 136th St. Neville & Bagge, 217 West 125th St., are the Archs. Estimated cost, $225,000.

A 4-story brick tenement, 46 × 89.1 ft., at the northeast corner of Evelyn Pl. and Davidson Ave., Bronx, for Frank A. Ten Brock, 1826 Bathgate Ave. Schaefer & Jaeger, 401 Tremont Ave., Bronx, are the Archs. The cost is estimated at $40,000.

Two 5-story brick tenements, 68.2 × 65.8 ft. and 76 × 60.11 ft., respectively, at the southeast corner of 178th St. and Mapes Ave., Bronx. Joseph Diamond, 1139 Wyatt Ave., is the owner and Morris Weinstein, 459 Tremont Ave., is the Arch. Cost, $125,000.

Two 1-story brick stores and amusement hall, 25 × 66 ft. and 80 × 66 ft., at the southeast corner of Fox St. and Westchester Ave., Bronx. Henry Acker, 901 Prospect Ave., is the owner and Koppe & Daube, 830 Westchester Ave., are the Archs. Estimated cost, $40,000.

NEW YORK, N. Y.—Plans for erecting a building at the northeast corner of 48th St. and Fifth Ave., for Robert W. Goelet, were filed recently. The structure will be fireproof and will be 20 × 100 ft. H. Craig Severance, 21 West 45th St., New York, Arch. Cost, $125,000.

Plans were filed recently for a 5-story brick fireproof store and office building for Roland F. Knoedler, who will use the structure exclusively for art. The building will be located on the west side of Fifth Ave., 25.5 ft. south of 46th St., with a frontage of 50 ft. and a depth of 100 ft., with a rear extension. The facade of the building will be of brick, with limestone trimmings, and thoroughly fireproof. Carrere & Hastings, Archs., 225 Fifth Ave., have estimated the cost of this building at $175,000.

Harry P. Knowles, 1170 Broadway, has completed plans for a group of seven buildings for St. Michael's Home, Staten Island, to replace the present structures. The **HEDDEN CONSTRUCTION CO.**, 1 Madison Ave., was awarded the contract.

N. Levy & Son, 898 Broadway, Brooklyn, have filed plans for the erection of five 4-story brick and limestone 2-family duplex houses, to be erected on the north side of Sixth St., between Eighth Ave. and Prospect Park West, Brooklyn, at a cost of $100,000.

NEW YORK, N. Y.—Plans are being drawn for ten public school buildings and annexes, with a total seating capacity of more than 17,000 pupils. C. B. J. Snyder, Supt. of School Bldgs., recently announced that the contracts for these buildings will be let in the next few months. Money for the erection of the buildings already has been provided by the Board of Estimate. Plans and specifications are ready for a new School No. 95, at West Houston and Varick Sts. This school will have a seating capacity of 2,833. Plans are also ready for P. S. No. 165, at Lott and Hopkinson Aves., Brooklyn. It will accommodate 1,658 pupils. A new P. S. No. 61 is to be erected in East Twelfth St., between Aves. B and C, to replace P. S. No. 165. The new school will seat 1,725 pupils. Plans are nearly ready for P. S. No. 168, at Throop Ave. and Bartlett St., Brooklyn. It will furnish 2,081 sittings, and will be followed almost immediately by No. 171, at Ridgewood, Lincoln, and Nicholas Ave., Brooklyn. This will have the same number of sittings. An addition is to be built to P. S. No. 7, in Long Island City. The contract for P. S. No. 92, Park Ave. and Randall St., North Corona, has been let, but the work has been delayed by litigation. Another new high school is to be erected in Ridgewood, Brooklyn, for which sketches have beel made for submission to the committees. The school will be at Irving and Putnam Aves., and will accommodate 1,800 pupils. An addition to the Brooklyn Boys' High School, with a capacity of 1,000, will be erected at Putnam and Marcy Aves.

We are officially advised that the general contract for constructing P. S. No. 40, Boro. of Bronx, has been awarded to the **J. F. WALSH CONSTRUCTION CO.**, 1 Madison Ave., New York, at $74,940.

The contract for constructing the Salvation Army Building at Raymond and Tillary Sts., Brooklyn, has also been awarded to the above firm, at $79,000.

NEW YORK, N. Y.—Bids will be received until 10.30 a. m., Oct. 15, by R. Waldo, Fire Comr., for furnishing all the labor and materials required for additions and alterations to quarter of Engine Co. 207, 51 Cottage Pl., Port Richmond, and Engine Co. 208, Mariners Harbor, Boro. of Richmond.

Bids are asked by the Department of Parks, until 3 p. m., Oct. 6, for furnishing and delivering mason's materials at Metropolitan Museum of Art, Central Park, Boro. of Manhattan. Charles B. Stover is Pres., and Thomas J. Higgins and Michael J. Kennedy are Comrs. of Parks.

We are officially advised that the contract for constructing a 4-story theatre, 80 x 100 ft., on the north side of Longwood Ave., 170 ft. east of Westchester Ave., the Bronx, for the Damascus Amusement Co., 277 Broadway, has been awarded to **ISAAC A. HOPPER**, 231 West 125th st., New York, at $125,000. The structure will be of brick and stone construction. W. H. McElfatrick, 701 Seventh Ave., New York, is Arch.

NEW YORK, N. Y.—The following bids were received on Sept. 26 by the Board of Education, C. B. J. Snyder, Supt, of Bldgs. (Item 1), for installing heating and ventilating apparatus, and (Item 2) for installing temperature regulation, in addition to P. S. No. 19, on the westerly side of Keap St., between South Second and Third Sts., Boro. of Brooklyn: Frank Dobson Co., Inc., 319 East 53d St. (Item 1), $41,943; E. Rutzler Co., 404 East 49th St. (Item 1), $42,111; Blake & Williams, 24 Barrow St. (Item 1), $39,993; Wm. J. Olvany, 177 Christopher St. (Item 1), $39,989; Jas. Curren Mfg. Co., 512 West 136th St. (Item 1), $42,000; Johnson Service Co., 123 East 27th St. (Item 2), $2,989.

NEW YORK, N. Y.—Bids will be received until 10.30 a. m., Oct. 10, by R. Waldo, Fire Comr., for furnishing all the labor and materials required for repairs to the quarters of Engine Co. 84, located at 513 West 161st St., Boro. of Manhattan.

NEW YORK, N. Y.—See item under Light and Power Plants.

BUFFALO, N. Y.—Colson & Hudson, Archs., 35 Dun Bldg., have plans in progress for a 1-story warehouse, 90 × 650 ft., to be added to the plant of the Buffalo Fertilizer Co., at William and Kennedy Sts. and the Lehigh Valley R. R., East Buffalo.

It is stated that the Metropolitan Amusement Co. has purchased a site in Broadway, near Wilson St., for the purpose of erecting a moving-picture theater, to cost about $100,000.

NORTH TONAWANDA, N. Y.—Plans are being prepared for erecting a 25-room hospital. Mayor Louis T. Fick, Chn. of the Building Com., will select a site. Leon Gray is Arch.

*OLEAN, N. Y.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for a post-office building, at Olean, to **WILLIAM WERNER**, 657 Vanderbilt Ave., Brooklyn, N. Y., at $53,944. Time, Oct. 1, 1911. Bids were opened on Aug. 31, list of which were given on Sept. 8.

JERSEY CITY, N. J.—Bids will be received by the Board of Education of Jersey City until 9 p. m., Oct. 13, in the Assembly Chamber, City Hall, for all labor and materials required for the erection of P. S. No. 34, at Boulevard and Warner Aves., in accordance with the plans and specifications on file in the office of G. Fred Ege, Secy. of Bd. John T. Rowland, Jr., 15 Exchange Pl., Jersey City, is Superv. Arch.

EAST ORANGE, N. J.—Bids will be received by the Board of Education, City Hall, until 8 p. m., Oct. 13, for furnishing the labor and materials for the construction of a high school. Guilbert & Betelle, 917 Broad St., Newark, N. J., and 25 West 32d St., New York, are Archs. Warren A. Clapp is Secy. of Bd.

*FORT HANCOCK, N. J.—Bids are asked until noon, Oct. 26, by First Lieut. Frederic H. Smith, Constr. Q. M., for the construction, plumbing, electric wiring and fixtures of one set of brick quarters for civilian employees at Fort Hancock.

NEWARK, N. J.—The following bids were ceived on Sept. 20, by the Board of Education, for the construction of the Webster St. school: William G. Sharwell & Co., 381 North Fifth St., masonry and carpentry, $87,741; Fred. Kilgus, 13 South Sixth St., $87,993; Russel-Robinson Co., 109 Frelinghuysen Ave., masonry and carpentry, $104,481; Industrial Engineering Co., general construction, $123,409; Ross-Bush Co., Dunellen Ave., general construction, $111,000; City Engineering Co., ex. lighting fixtures, plumbing and heating, $103,000; John Lowry, Jr., general construction, $103,960; L. A. Burke & Son, general construction, $135,000; Fred. Kilgus, general construction, $127,594.

EASTON, PA.—Bids were received as follows on Sept. 20, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Easton: M. P. Wells, Witherspoon Bldg., Philadelphia, $93,500; the West Chester Engineering Co., 39 East 42d St., New York, $95,000; William H. Fissell & Co., 1133 Broadway, New York, $99,973; B. Ketcham's Sons, 1029 Brown St., Philadelphia, $107,493; King Lumber Co., Charlottesville, Va., $97,400; Herman F. S. Rummel, Reading, Pa., $118,980; William Werner, 657 Vanderbilt Ave., Brooklyn, $107,958; Richard E. Heningham, 1 Madison Ave., New York, $96,861; Charles H. Peckworth, 415 Hudson St., New York, $103,224; Ambrose B. Stannard, St. James Bldg., New York, $94,000; Conners Bros. Co., Lowell, Mass., $107,600; Charles McCaul Co., Tenth and Sansom Sts., Philadelphia, $99,649; Robert S. Rathbun, Allentown, Pa., $102,924; J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, $99,740; Edward F. Fonder, Philadelphia, $112,650.

KITTANNING, PA.—Bids will be received soon, by the Board of Education, for the erection of a high school building, to cost approximately $40,000.

JOHNSTOWN, PA.—Plans have been accepted by the Building Committee of the First United Brethern Congregation, for the proposed church on Vine St., which is estimated to cost $75,000. Rev. J. Mehlon Miller is Pastor.

JENKINTOWN, PA.—John McGoldrick, Philadelphia, will erect twelve 3-story dwellings at Leedom and Wert Aves., Jenkintown, to cost about $48,000.

GREENSBURG, PA.—Bids were received as follows on Sept. 26, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Greensburg: M. Yeager & Sons, Danville, Ill., $87,895; Charles McCaul & Co., Tenth and Sansom Sts., Philadelphia, $94,972; William H. Fissell & Co., 1133 Broadway, New York, $88,750; Charles H. Peckworth, 415 Hudson St., New York, $91,171; M. P. Wells, Witherspoon Bldg., Philadelphia, $89,719; D. J. Phipps, Newport News, Va., $91,679; William Werner, 657 Vanderbilt Ave., Brooklyn, N. Y., $94,288.

PHILADELPHIA, PA.—Bids will be received on Nov. 30 for the construction of a 7-story building, 47 × 120 ft., on reinforced concrete, on the north side of Arch St., east of Seventh St., for Treacy, Morris & Co., 623 Market St., by Pinckert & Wunder, 310 Chestnut St., Philadelphia, Engrs. and Archs. Estimated cost, $100,000.

MITCHELL BROS., 2125 Race St., Philadelphia, have been awarded the contract for the erection of a 3-story wing, 50 × 99 ft., to the Philip H. Sheridan school, at the southeast corner of G and Ontario Sts. The cost will be about $95,767.

PHILADELPHIA, PA.—H. E. De Hoff, 48 South 61st St., is preparing plans for a 3-story flat house, 145 × 105 ft., at the northwest corner of 44th and Walnut Sts., for M. Rosenstein, to cost $80,000.

JOHN G. RUFF, 823 Cherry St., Philadelphia, will erect 24 2-story houses, 14 x 32 ft. each, on Stanley, south of Wharton St., to cost about $40,000.

PHILADELPHIA, PA.—The Philadelphia Shoe Exchange is planning to erect a building at 23d and Chestnut Sts. The project involves about $150,000 for the site, and $300,000 for the building. Plans have been prepared for a 10-story structure, with 15,000 sq. ft. on each floor.

JAMES M. BRANAGAN, 537 Erie Ave., Philadelphia, will erect 23 2-story houses, 15 × 35 ft. each, on Franklin St., north of Luzerne, to cost $40,000.

SAMUEL H. LEVER will erect 13 dwellings, 15.6 × 48 ft. each, on Wingohocking and Germantown Ave., for Hyman Beckman, to cost $42,000.

THE WATTS CONSTRUCTION CO. has purchased two tracts of land, 384 × 100 ft. each, on both sides of 61st St., between Lansdowne and Haddington Aves., on which it will build 50 porch-front dwellings. The land and houses will cost about $200,000.

PHILADELPHIA, PA.—J. E. & A. L. Pennock, Land Title Bldg., are estimating on an orphan asylum and a House of Detention, at 29th St. and Allegheny Ave., plans for which are being prepared by E. F. Durang & Son, Archs., for the Catholic Home for Destitute Children. Noted on Sept. 8.

It is stated that John E. Reyburn, Mayor, has selected a new site for the proposed Home for the Indigent, embracing about 120 acres, on Wooded Heights, at Torresdale. The property is part of the Alexander Brown estate and adjoins the Torresdale filtration station on its northern boundary. The cost is estimated at $150,000.

ERIE, PA.—Schuyler Grant, who has been promoting the scheme for the erection of a Shubert theatre in this city, has secured a building permit. Cost, $175,000.

EAST LIBERTY (Pittsburg post-office), PA.—The Whitfield Land Co. has secured a permit for a store and bachelor apartment building to be erected at Whitfield and Kirkwood Sts., East Liberty. Coll & Totten, 5941 Penn Ave., will have charge of the building. Estimated cost, $75,000.

PITTSBURG, PA.—**JAMES L. STUART**, 341 Sixth Ave., Pittsburg, has been awarded a contract for the erection of a 5-story building at Bedford and Seventh Aves. It will be owned and occupied by the Pittsburg Testing Laboratory, Ltd., 325 Water St., and will cost about $60,000.

WILKES-BARRE, PA.—The contract has been awarded to **HERMAN MILANDER** for the erection of the 20 dwellings on North Main and West Jackson Sts. They will cost, when completed, about $50,000.

HIGHLANDTOWN (Baltimore post-office) MD.—Bids were received by C. Montgomery Anderson, Arch., 324 North Charles St., on Sept. 22, for two warehouses to be erected in Highlandtown, Baltimore County for the Crown Cork & Seal Co., Guilford Ave. and Oliver St. They will be two and three stories, of brick and steel and reinforced concrete, with tin and slag roof, ornamental iron work, cement floors and fireproofing. (Heating, elevator and electric work reserved). The **D. M. ANDREWS CO.**, 211 St. Paul St., was awarded the contract.

BALTIMORE, MD.—Baldwin & Pennington, Professional Bldg., Baltimore, and McKim, Meade & White, 160 Fifth Ave., New York, Associate Archs., received the following bids on Sept. 26 for the proposed office building to be erected at Calvert and Fayette Sts., for Frank A. Munsey, publisher of the Baltimore News, care of Stuart Oliver, Gen. Mgr., on premises. It will be 18 stories, 75 x 95 ft., of brick and stone, with slag roof, steam heat, gas and electric lighting, plate glass front, steel, fireproof. The George A. Fuller Co., Munsey Bldg.; Thompson-Starrett Co., 14th and G Sts.; Norcross Bros. Co., Colorado Bldg., all of Washington, D. C. and the Hedden Construction Co., 1 Madison Ave., Wells Bros. Co., 160 Fifth Ave., all of New York. The contract will probably be awarded next week. The GEORGE A. FULLER CO., is already contractor for one section of the building.

BALTIMORE, MD.—The Protestant Episcopal Diocese of Maryland, care of Herbert M. Brune, Atty., Calvert Bldg., are having plans and specifications prepared for a Pro-Cathedral, having a seating capacity of 3,000. It will include a chapter house, library building, parish house and edifice for St. George's and St. Barnabas' Congregation. Plans for the group of other buildings will be asked for in competition.

BALTIMORE, MD.—Ellicott & Emmart, Archs., Union Trust Bldg., will finish the plans and specifications soon for the proposed residence for Lemuel Appold, 904 North Calvert St., to be erected on Charles St. Boulevard and 34th St. It will be a 2-story structure of brick, with gas and electric lighting, plumbing and tile work. Cost, $40,000. Bids will be asked for shortly.

A permit was granted at the building Inspector's office recently for the erection of the store and office building for Thomas O'Neill at the northeast corner of Franklin and Charles St. Baldwin & Pennington, Archs., Professional Bldg., have finished the drawings and EDWARD WATTERS & CO., 532 St. Paul St., who have been awarded the contract, will start at once to build. It will cost about $80,000.

Hochschild, Kohn & Co. will erect a large 8-story warehouse on Clay St., near Howard St. The plans, which are being prepared by Joseph Evans Sperry, Arch., Calvert Bldg., call for a fireproof structure of brick. The building will be equipped with electric elevators, electric lighting and steam heat. The contract will be awarded soon.

WAVERLY (Baltimore post-office), MD.—Baldwin & Pennington, Archs., Professional Bldg., Baltimore, have completed plans for the school house to be built at Waverly, to cost about $150,000.

CUMBERLAND, MD.—The Western Maryland Ry. Co. plans the construction of a passenger depot here, to replace the present structure. The site has not as yet been selected. H. R. PRATT, Ch. Engr., Baltimore, will have charge of construction work. Estimated cost, $100,000.

LYNCHBURG, VA.—The Southern Ry. Co. has commissioned Milburn, Heister & Co., Archs., Home Life Bldg., Washington, D. C., to revise plans for the proposed passenger station. It is possible that bids will be called for again about Oct. 1.

GRAFTON, W. VA.—J. J. WALSH & SONS, 1533 Maryland Ave., Baltimore, have the contract for the erection of the proposed Willard Hotel, for which ground is soon to be broken. The structure will be erected at the cost of $125,000, without furnishings, and it is expected by Col. John T. McGraw, who is financing the venture, that another $75,000 will be expended on the furnishings. The building is to be six stories in height and 43 × 120 ft. Cherry red brick is to be used and all trimmings will be of limestone colored terra cotta. M. A. Long, of Baltimore, is the Arch. The sub-contract for the excavation and grading for the foundations has been let to JOHN M. KEANE, of Grafton.

HUNTINGTON, W. VA.—It is stated that a new Masonic Temple is to be erected at Huntington. The proposed structure will be seven stories high and is to cost about $100,000.

ROME, GA.—W. T. Downing, Arch., Prudential Bldg., Atlanta, is drawing plans for the proposed college buildings for girls of Greater Shorter. The plans include a college building, a music hall, an art building, a library and science hall, to be fireproof.

*WAYCROSS, GA.—Bids were received as follows on Sept. 15 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Waycross: National Fire Proofing Co., Washington, $59,710; George A. Clayton, Atlanta, Ga., $61,286; Miles Brandt Co., Atlanta, Ga., $60,000; King Lumber Co., Charlotteville, Va., $62,900; Charles H. Peckworth, 415 Hudson St., New York, $60,981; D. J. Phipps, Newport News, Va., $59,589; J. H. Brinson, Hampton, Va., $54,770; McHenry-Beatty Co., East Liverpool, Ohio, $59,480; Nicholas Ittner, Atlanta, Ga., $68,959; J. F. Jenkins, Gainesville, Fla., $58,000; George Beeking, Chattanooga, Tenn., $63,034; E. Morgan, Savannah, Ga., $56,336; Ambrose B. Stannard, St. James Bldg., New York, $55,000.

HATTIESBURG, MISS.—At a recent meeting of the Trustees of the State Normal College, at Jackson, it was decided to locate the college in Hattiesburg. The following inducements were offered: Hattiesburg, $250,000, site of 100 acres or more; Laurel, $230,000, site, a model school building, water, free from five years, etc.; Jackson, $200,000 and a site..

MERIDIAN, MISS.—The contract for the construction of the $80,000 building of the Citizens' National Bank at Meridian, has been awarded to the NEWPORT NEWS CONSTRUCTION & ENGINEERING CO. The building is to be seven stories high, and the furnishings are to cost $70,000. It will be of steel and brick, with terra cotta effect, and is to be completed in eight months.

FRANKFORT, KY.—John Marshall, a tobacco buyer, a representative of the American Tobacco Co., recently purchased a site on the Kentucky River, in South Frankfort, to erect a $50,000 warehouse for tobacco.

MOUNT VERNON, OHIO.—Bids will be received by the Ohio State Sanatorium Commission at the office of the secretary, Dr. C. O. Probst, State House, Columbus, Oct. 11, to construct the farm barns and stables at the Ohio State Sanatorium, located near Mount Vernon. Frank L. Packard, Hayden Bldg., Columbus; Judson Harmon is Pres. of Comn., Columbus.

CLEVELAND, OHIO.—A permit for the erection of the proposed 7-story portion of the new Cleveland Athletic Club building on Euclid Ave. has been issued by the Building Inspector. The cost of this section will be $200,000 and the building when complete will be twelve stories high.

TOLEDO, OHIO.—Harry W. Wachter, Arch., the Nasby, is preparing plans for a theater to be built here for Vaughan Glaser. It will have a seating capacity of 1,400 and will cost between $50,000 and $75,000. There will be no gallery. The entire 1,400 seats will be contained in the orchestra and balcony.

FRENCH LICK, IND.—T. Taggart has announced that bids will be asked for after Oct. 1 for the construction of an addition to the French Lick Hotel.

INDIANAPOLIS, IND.—The W. H. Black Co. has awarded a contract to the BEDFORD STONE & CONSTRUCTION CO., Traction Terminal Bldg., Indianapolis, for the erection of an apartment store building on Market and Illinois Sts., to cost about $450,000.

CROWN POINT, IND.—Beers & Beers, Archs., Orchestra Bldg., Chicago, are preparing plans for a 3-story high school, 60 × 80 ft., at Crown Point, Ind., for the Board of Education, W. R. Curtiss, Supt. The building will be of pressed brick construction, with tile roof, steam heating, modern plumbing, hardwood finish, and have manual training, gymnasium and natatorium.

TERRE HAUTE, IND.—Terre Haute Lodge No. 19, Masons, has taken steps to build a Masonic Temple. W. B. Rice is Chn. of the Building Committee to secure plans and receive bids.

LA FAYETE, IND.—Plans have been ordered and Winski & Co. will ask for bids for the construction of a warehouse on Green St.; also for the construction of a private switch to the Cleveland, Cincinnati, Chicago & St. Louis Ry. tracks.

DETROIT, MICH.—D. H. Burnham & Co., Archs., Railway Exchange Bldg., Chicago, Ill., will open estimates about Oct. 1 for a $3,000,000 office building, 21 stories, 129 × 145 ft., at Detroit, Mich., for the Dime Savings Bank. It is to be of steel and tile fireproof construction, with terra cotta and brick exterior.

DETROIT, MICH.—Malcomson & Higgonbotham, Moffat Bldg., Arch., and Ammerman, McColl & Anderson, Engr., Penobscot Bldg., will receive estimates about Oct. 1 on the John F. Bennett school building. The structure is to be of brick and stone, structural iron, galvanized iron, with cornice, and heated by steam and fan ventilation. Cost will be about $70,000.

The Board of Education, William J. Lee, Sec'y, 50 Broadway Ave., received the following lowest bids on Sept. 20 for the proposed $50,000 addition to the Bellevue Ave. School. Malcomson & Higginbotham, Moffat Bldg., are Archs. Smith, Hinchman & Grylls, Washington Arcade, are Engrs. Masonry to OTTO MISCH, Home Bank Bldg., $11,006; carpentry to U. ARMSTRONG, 145 Willis Ave., $10,731; sheet metal work and roofing to DETROIT CORNICE & SLATE CO., 147 St. Antonia St., $1,668; cut stone, WILLIAM S. PIGGINS, Leland and Dequinder Sts., $838; plumbing, O'CONNOR BROS., Penobscot Bldg., $1,333; heating and ventilating, J. ZERGA, 78 Larned St., $3,930; plastering, J. H. LAWRIE, Detroit, Mich., $3,750; painting, BREDE & SCHROETER, 20 Adams Ave., $992; hardware, BUHL & SONS, 103 Woodbridge, west, $691; electric wiring, JOHN MILLER ELECTRIC CO., 258 Randolph St., $3,153; stokers, MURPHY IRON WORKS, foot of Walker St., $673; heating regulation, JOHNSON SERVICE CO., 220 21st St., $1,395. The above are all low bidders and will probably be awarded contracts, as the total is within the appropriation of $50,000.

GRANT CITY, MICH.—Allen & Son, Housemen Bldg., Grand Rapids, Mich., have let the following contracts for the 2-story addition to a school building for the Board of Education of Grant City, P. Anderson, Pres., Kent City. General contract to GEORGE H. BROTT, Kent City; steam heating to the WEATHERLY CO., 18 Pearl St., Grand Rapids.

PONTIAC, MICH.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 14, for the construction, complete (including plumbing, gas piping, heating apparatus, and electric conduits and wiring) of the U. S. post-office at Pontiac, Mich.

WHEATON, ILL.—H. Shaw, Arch., 161 State St., awarded the masonry to OLSON & BROCKHAUSEN; carpentry, to AXEL ERICSON; plastering, to McNULTY BROS.; plumbing and heating, to M. J. CORBOY, for a $40,000 convalescent home for crippled children at Wheaton, Ill. Mrs. W. J. Chalmers, Pres. of Subscription Committee.

The Aurora, Elgin & Chicago Ry. Co. will build a combination station and office building at Wheaton. The structure will be 120 × 40 ft., and will be three stories high, built of brick with tile roof. It is expected to commence construction this fall. Edwin C. Faber, Wheaton, Ill., is Gen. Mgr.

*ROCK ISLAND, ILL.—Bids will be received until 2 p. m., Oct. 17, by Lieut.-Col. F. E. Hobbs, Ordnance Dept, U S A, for the erection of a reinforced concrete brick storehouse at the Rock Island Arsenal

CHICAGO, ILL.—We are officially advised that George Beaumont, Arch., 115 Dearborn St., Chicago, will receive bids about Nov. 1 for the construction of a 9-story fireproof building, 80 × 165 ft., at Wabash Ave. and Harmon Court, for Charles F. Gunther. The structure will be of steel, tile brick, terra cotta, granite, marble, etc. Freight and passenger elevators, steam boilers, pumps, tanks, etc., will be installed. Estimated cost, $250,000.

CHICAGO, ILL.—A building to cost $100,000 will be erected by M. L. Oberndorf & Co., wholesale tailors, on Peoria St., at the southwest corner of Jackson Boulevard. Max L. Oberndorf has closed a 99-year lease with the Scotch Westminster Presbyterian congregation, whose church formerly occupied the site, but who abandoned the old building ten years ago. The old building has been wrecked and Mr. Oberndorf will commence at once the erection of his building, which will be six stories and of mill construction, the plans being prepared by A. S. Alschuler, 154 Monroe St.

A building similar in size to the present Ryerson Physical Laboratory, and to be erected at a cost of $100,000, has been presented to the University of Chicago by Martin A. Ryerson, Pres. of the University Board of Trustees. The structure will stand northeast of the present physics laboratory and will complete the quadrangle known as Hutchinson Court. A Gothic corridor will connect the two physics buildings. An entire readjustment of the arrangements of the old buildings will be made as soon as the new structure is ready for occupancy. Plans for the building have been made by the university architects, Shepley, Rutan & Coolidge, Ames Bldg., and the contract for the construction work has been let to the C. EVERETT CLARK CO., 100 Washington St., Chicago, and calls for its completion by next fall. The material used will be the Bedford limestone, of which all permanent buildings at the university have been made. It will be three stories in height and in Gothic style.

W. C. Zimmerman, Arch., Steinway Hall, is preparing plans for a building with twelve apartments, three stories, 41 × 135 ft., at Vincennes Ave. and 15th Pl., for Mrs. Eugene Bridge, to be built of pressed brick with stone trimming, hardwood finish, mantels and consoles, with steam heating, mosaic and tile work and modern plumbing.

CHICAGO, ILL.—The estate of Leander J. McCormick has closed a purchase from S. Karpen & Bros. of the land and building at 189 to 192 Michigan Ave., 82 × 171 ft., for $1,148,000, and will begin the construction on May 1 of a store and office building 21 stories high, for which Holabird & Roche, Archs., Monadnock Bldg., have prepared plans. The building will cost more than $1,000,000. It will be an addition to the store and office building which the L. J. McCormick estate has just completed at the northwest corner of Michigan Ave. and Van Buren St., the cost of which was given at $1,500,000.

Meyer & Co., tailors, 158 Harrison St., have purchased the property at the southwest corner of Green and Adams Sts. fronting 150 ft. on the former and 116 on the latter, from various owners for $53,000. They will construct a 6-story building to cost $150,000, covering 125 ft. of the frontage, which they will occupy. Plans for the building are being prepared by A. S. Alschuler, Arch., 154 Monroe St.

Thomas McCall, Arch., 9 Jackson Boulevard, has awarded masonry to WALTER WOODLEY; carpentry, to MORAW BUILDING CO., and plumbing, to T. FRUIN for a building of six apartments, three stories, 50 × 70 ft., at 6141 and 6143 Vernon Ave.

Walter E. Olson, Pres. of the Olson Rug Co., 278 West Madison St., has purchased from the Third Unitarian Church of Chicago, the site of their old church on Monroe St. and the northwestern corner of Laflin St., fronting south 75 × 125 ft. It is the intention of Mr. Olson to erect upon the site a 6-story building to cost about $50,000 and the work will be begun in a short time.

D. E. Burnham & Co., 9 Jackson Boulevard, are receiving estimates for a 5-story warehouse at the southeast corner of Polk and Twelfth Sts. for Marshall Field & Co., to be of brick, stone and steel construction, with steam heating, electric elevators, fireproof windows and plumbing.

CHICAGO, ILL.—Beers & Beers, Archs., 168 Michigan Ave., have awarded the following contracts for a 6-story office building, 106 × 200 ft., at 441 to 449 Fifth Ave., for the Wells-Fargo Express Co., to cost $200,000. Cut stone work, A. J. WARD; terra cotta, NORTHWESTERN TERRA COTTA CO.; plastering, P. C. WORLD; electrical work, McFELL ELECTRIC CO.; painting, J. C. GLEICH; glazing, SHARP & PARTRIDGE; sheet metal, GRACE CORNICE CO.; composition roofing, WESTERN ROOFING SUPPLY CO.; ornamental iron, CHICAGO ORNAMENTAL IRON WORKS; marble work, J. FLINDALL & CO.; structural steel work, to MORAVA CONSTRUCTION CO.; plumbing, C. J. STEIN; steam heating, H. L. PRENTICE, and fireproofing to F. P. WHITACRE.

William F. Gubbins, Arch., Ashland Block, has awarded the carpentry contract to D. H. HOYLE, and heating to D. H. HERLIHY for a 3-story building, 43 × 116 ft., at Ogden Ave. and Leavitt St., to be known as the "Emmett Memorial Hall," for the Hibernian Societies. James Dorothy is Chmn. of the Building Committee.

J. Duncan, Arch., 87 Washington St., has awarded terra cotta, tile and masonry contract to COX BROS., and structural steel to GARDEN CITY IRON WORKS, and steam heating to CUSACK BROS., for a $65,000 theater, 44 × 120 ft., at Clark St. and Diversey Ave., for E. Siebert. The building will have a seating capacity of 800.

A. E. Colcord, Arch., 108 Dearborn St., has awarded the masonry contract for C. Drinkwater to C. D. ARMSTRONG, and carpentry to MORMAN & CARLSON, for a building to contain twelve apartments at Adams St. and Hamlin Ave. It is to be three stories, 50 × 125 ft., of pressed brick with hardwood finish, consols, tile work and steam heating.

CHICAGO, ILL.—The members of the Chicago Board of Trade have turned down the proposal of D. H. Burnham & Co., Archs., to erect a $5,000,000 22-story building on the site of the present structure. According to the Chicago "Inter-Ocean," the plan for a new building in the near future was definitely rejected and no further attempts will be made to boom any such project. Instead, it is stated $200,000 will be expended at once in necessary repairs on the present building.

A. P. Gassman & Co., Archs., 103 Washington St., are preparing plans for a building with seven apartments at Byron and Osgood Sts., for Charles Helenthal. It is to be three stories high, 25 × 64 ft., built of pressed brick, with hardwood finish, consols, hot water heating, tile work and garbage crematory.

Schmidt, Garden & Martin, Archs., 172 Washington St., has awarded the hot water heating contract to ROBERT GORDON and electrical work to JOHN WICKUM, for a residence at Clarendon and Kinnesaw Aves., for L. M. Richardson, to be of granite construction, with slate or tile roof. Cost, $80,000.

The State St. 20-story building is to be erected at a cost of $1,500,000, at the northwest corner of State and Quincy Sts. as the result of the acquirement by Jacob L. Kesner of the leasehold interest of Charles Ruppert, Sr., in the 33.5 × 144 ft. at the corner. Mr. Kesner holds the 29 ft. adjoining belonging to Charles F. Gunther under long term lease. The proposed buildings, to cost $1,500,000, at Randolph and La Salle Sts., will be erected by Emil and Carl Eitel as the result of their lease for a term of ninety-nine years from Alexander A. McKay of what is known as the Metropolitan Block property at the northwest corner of the two streets named. Frederick T. Hoyt represented both parties in this transaction.

DECATUR, ILL.—Preliminary steps have been taken for the erection of a hospital here to cost $200,000. The cottage system will be used and it is proposed to make the institution a model of its kind. C. M. Hurst is Chn. Bd. of Dirs.

KANKAKEE, ILL.—W. C. Zimmerman, Archs., Steinway Hall, Chicago, Ill., has awarded the general contract to J. C. POLL, Danville, Ill., for a 1-story cottage, to cost $50,000, at Kankakee, Ill., for the Board of Administration of Illinois. F. D. Whipp, Fiscal Superv.

MADISON, WIS.—The Capitol Building Commission has awarded the MODERN STEEL STRUCTURAL CO. of Waukesha, Wis, the contract for furnishing and placing the steel for the superstructure of the central portion of the proposed Capitol Building. Cost, $97,000. Four bids were received, ranging from $97,000 to $104,000.

OSHKOSH, WIS.—The State Board of Control has decided to reject all the bids submitted for the building of the proposed addition to the Northern Hospital for the Insane at Oshkosh, because the figures were too high, ranging from $80,000 to $118,000. The appropriation for the new building, including equipment is $100,000.

DES MOINES, IOWA.—F. M. Hubbell, Son & Co., recently announced that they will erect a business block at the southwest corner of Tenth and Walnut Sts. It is to be of brick, two stories high, and is designed for garage purposes. The plans call for several 33-ft. front garages in the building. Construction of the new building will begin early next spring and it will be completed in June or July.

SIOUX CITY, IOWA.—Plans have been completed for the proposed Davidson Block to be erected at Sixth and Pierce Sts. The building will cover a ground area of 150 × 150 ft. on the old Corn Palace site. It will be five stories high. The cost is estimated at $175,000. Benjamin Davidson is interested.

DULUTH, MINN.—L. S. Loeb recently purchased the property on the southwest corner of Lake Ave. and First St. for the purpose of erecting a business block. The site is 100 × 100 ft.

MIDWAY, MINN.—The plans for the new St. Louis County tuberculosis sanitarium at Midway are being prepared by Scopes & Fenstman, Archs., of Saranac Lake, N. Y. The structure will be located on 80 acres of ground. It will be erected on the cottage plan and there will be included in the group an administration building.

ST. PAUL, MINN.—Agitation for a public library building, costing in the neighborhood of $1,000,000 has been started. The Board of Library Directors has appointed F. J. Clemans, one of its number, to look into the feasibility of the project.

CLINTON, MO.—Bids were received as follows on Sept. 22, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Clinton: King Lumber Co., $69,100; Hiram Lloyd Bldg. & Construction Co., Odd Fellows' Bldg., St. Louis, $71,777; M. Yeager & Sons, Danville, Ill., $68,358.

*WARRENSBURG, MO.—Bids were received as follows on Sept. 21 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Warrensburg: King Lumber Co., Charlottesville, Va., $75,000; the Hiram Lloyd Bldg. & Construction Co., St. Louis, Mo., $77,592.

HOUSTON, TEX.—A permit for the erection of a 10-story steel and brick hotel has been issued to C. BENDER & SONS, 617 Willow St., Houston. The permit calls for the expenditure of $195,000. The foundation was laid several months ago.

TEXAS CITY, TEX.—See item under Water Supply-Irrigation.

SEATTLE, WASH.—It is reported that $500,000 will be spent in erecting 5 and 6-story commercial buildings on the tide lands at Connecticut and Fourth Aves. South by the Fisher-White-Henry Co. Those interested in this group of proposed buildings are: C. W. Fisher, Bozeman, Mont., Pres.; J. B. White, Kansas City, Vice-Pres.; L. C. Henry, Seattle, Treas., and O. W. Fisher, Seattle, Secy. H. C. Henry and Thomas Bordeaux are also interested. The buildings probably will be erected by the Stone & Webster Engineering Corp., 147 Milk St., Boston, Mass.

SEATTLE, WASH.—The plans prepared by William Kingsley, Arch., Empire Bldg., Seattle, for the proposed Orpheum Theater, were submitted to John W. Considine and approved. The plans as now computed call for an expenditure of about $375,000 instead of $300,000, the original estimate. A large part of the additional money will be spent in decorations, it is stated.

John Graham, Arch., Lowman Bldg., has completed the plans for a 4-story and basement brick building, to be erected at the northwest corner of Wall St. and Western Ave. for E. R. Butterworth, at a cost of from $50,000 to $60,000. Two of the stories will be erected at present and the other two will be built next spring.

SPOKANE, WASH.—The Berry Clothing Co., at present located on the southeast corner of Riverside Ave. and Washington St., plans the construction of a 3-story structure at Washington St. and Main Ave. Estimated cost, $50,000. Samuel Berry is Pres.

FORT STEVENS, ORE.—Bids are asked by Lt.-Col. G. S. Bingham, Ch. Q. M., Vancouver Barracks, Vancouver, Wash., until 11 a. m. Oct 12, for constructing an addition to the Ordnance storehouse, Fort Stevens, Ore.

EUGENE, ORE.—WELCH BROS., of Salmon, Wash., have been awarded the contract to build the proposed Christian Science church in this city, at $50,000.

PORTLAND, ORE.—Theodore Nicolai will erect a 4-story brick warehouse at the corner of East First and Taylor Sts. GEORGE LANGFORD has the contract. Cost, $45,000.

REDMOND, ORE.—Ehret Bros., of this city, are to erect a brick building at the corner of Sixth and C Sts., the first floor to be used by them for mercantile purposes. The ADVANCE CONSTRUCTION CO., of Redmond, has the contract for the mason work. BEN GOTTER has the contract for the carpenter work.

SAN FRANCISCO, CAL.—Bids are asked by H. H. North, Comr. of Immigration, San Francisco, until 2 p. m., Oct. 4, for constructing twelve, or less, 4-room cottages.

VISALIA, CAL.—The following bids were received by the Board of Education for the erection of a high school building: Brown & Alcorn, of San Francisco, $42,500; W. D. Trewhitt, of Hanford, $47,000. McDougall Bros., Russ Bldg., San Francisco, are Archs.

LOS ANGELES, CAL.—GUY BLISS, 120 West Colorado, has been awarded contract for the erection of a 4-story hospital building at Orange and Witmer Sts., Los Angeles. Estimated cost, $125,000. Norman F Marsh, Arch., Broadway Central Bldg., Los Angeles.

SANTA BARBARA, CAL.—We are officially advised that bids will be asked before January, 1911, for a surgical and medical hospital, 17 × 60 ft.; fireproof, two stories, with basement and tower, for the Cottage Hospital Association. Estimated cost, $50,000. E. Russel Ray is Arch. Santa Barbara noted last week.

PHOENIX, ARIZ.—Plans are being made to establish in Phoenix a college of the Methodist Episcopal Church South, with buildings to cost about $100,000. The project is in charge of Rev. J. E. Crutchfield.

Mayberry & Parker are drawing plans for a $40,000 building to be erected at the corner of Washington and Center Sts. Work on building will be started after Jan. 1.

MONTREAL, QUE.—In the construction of the Windsor St. station it was necessary to provide for the safe and rapid transfer of both passengers and baggage from floor to floor. As the building will be 200 ft. or more high and of immense area, this meant the installation of a number of elevators, and the Canadian Pacific Ry. Co. has let the contract for these elevators to the JOHN McDOUGALL CALEDONIAN IRON WORKS CO. LTD., 512 William St., Montreal. They include eight passenger, two baggage and one kitchen or freight elevator. These eleven elevators will be of the hydraulic plunger type.

ST. THOMAS, ONT.—Bids will be received by the Rev. T. West, St. Thomas, until 5 p. m., Oct. 1, for the masonry and plastering, carpentry and roofing, etc., required in the erection and completion of a stone church here. Arthur W. Holmes is Arch., 10 Bloor St., East Toronto, Ont.

WINNIPEG, MAN.—The Bank of Hamilton has paid $75,000 for a site for the proposed Princess St. branch.

NELSON, B. C.—The Canadian Pacific Ry. Co. will build a $1,000,000 tourist hotel on Kootenai Lake, 22 miles northwest of here. Hayter Reed, Montreal, Que., is Mgr.-in-Chief of Hotels.

VICTORIA, B. C.—E. W. Houghton, Arch., Collins Bldg., Seattle, Wash., is preparing plans for a $75,000 steel cantilever brick and frame theater building to be erected on Government St. between Elliott and Superior Sts., Victoria, for a Mrs. Anderson, of this city. Working drawings have been started and will be ready for estimates by Oct. 1.

PROCTOR, B. C.—Contract for a new $150,000 hotel near Proctor, in the Kootenay Lake region, has been let by the Canadian Pacific Ry. Co. to C. W. SHARP & SON, of Winnipeg, Man. It will be of frame construction and is to finished by May 1 next.

WATER SUPPLY—IRRIGATION.

(*Denotes *that this work is advertised in* Engineering News.)

*PORTLAND, ME.—The Portland Water District has awarded contract to JOHN C. TIERNEY, of Hoboken, N. J., for hauling and laying cast-iron pipe for the proposed 14-mile pipe line, at $185,679. Noted on Sept. 22. Hazen & Whipple are Engrs., 103 Park Ave., New York.

NEW YORK, N. Y.—Bids are asked by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., Oct. 5, for furnishing, delivering and laying water mains in Eastern Boulevard, City Island Road and Fordham St., and subaqueous water mains from Rodman's Neck to City Island, and from City Island to Hart's Island; for furnishing and delivering two portable recording meters; for furnishing, delivering and erecting a new floor and office and a pump room in the 96th St. Pumping Station, Boro. Manhattan; for furnishing, delivering and laying suction mains and appurtenances.

NEW YORK, N. Y.—Bids were received as follows on Sept. 21 for hauling and laying water mains and appurtenances and removing the existing water mains in Franklin, Hegeman and New Lots Aves.: Haggerty & Drummond, $9,637; Henry E. Fox, $9,760; Robert Garter, $9,914; S. Amanna, $14,160; Sorracci Contracting Co., $11,200; Julius Dragonetti, $12,001; Leo E. Kelly, $10,587; Nelson & Dowling, $16,163; A. B. Nichols, $22,568; Newman & Carey, 215 Montague St., Brooklyn, $8,917.

OLEAN, N. Y.—Bids will be received by the Board of Water Commissioners until 8 p. m., Sept. 30, for trenching, laying and back filling for the construction of approximately 3,025 ft. 4-in. 1,600 ft. 6-in. and 2,000 ft. 8-in. water line. Charles Keenan is Secy.

CHERRY CREEK, N. Y.—Contract for laying the pipe and constructing a reservoir here for the proposed water-works system has been awarded to J. C. SANSON & SON, of Jamestown, N. Y., at $12,386.

ANGOLA, N. Y.—The taxpayers have voted in favor of the construction of a water-works system at an estimated cost of $55,000. Bids will be received by the Village Clerk.

EAST AURORA, N. Y.—The proposition to vote on the question of an appropriation of $18,000 to extend the water mains and improve the pumping station has been carried. Address the Village President.

*THIELLS, N. Y.—Bids for water and sewerage system at Letchworth Village, Thiells, were received by Franklin B. Kirkbridge, Secy. Bd. of Managers of Letchworth Village, Room 215, 55 Wall St., New York, on Sept. 27, as follows: R. T. Ford Co., Rochester, N. Y., $128,587; Lesker & Wagner, Rochester, Jersey City, N. J., $169,277; MacArthur Bros., 11 Pine St., New York, $199,856.

ORISKANY FALLS, N. Y.—We are officially advised that the city will construct a gravity water system with reservoir, iron pipe, hydrants, etc. A. M. Scripture, of New Hartford, N. Y., is Engr.

*BINGHAMTON, N. Y.—Plans and specifications are on file at the office of Engineering News, New York, for constructing a 5,000,000-gallon distributing reservoir. The work involves about 2,900 cu. yds. of concrete, plain and reinforced, and about 50,000 cu. yds. of excavation. Bids are asked until Nov. 1. Clinton L. Bogert, 57 East 129th St., New York, is Des. Engr.; John D. Davidson is Secy. Bd. Water Comrs.

*SARANAC LAKE, N. Y.—Bids will be received by the Sewer and Water Board until 8 p. m., Oct. 4, for furnishing the materials and constructing extensions to the water systems of the village. There will be required approximately the following amount of materials: Three miles of 10, 8, 6 and 4-in. c.-i. water pipe, 30 fire hydrants, gates, valves, etc. J. S. Collins is Engr.

PARKERSBURG, W. VA.—The Board of Affairs has awarded contract to WILLIAM H. CHISHOLM & SONS, of Pittsburg, Pa., at $20,081 for constructing pump well, pipe gallery and foundation.

ROMNEY, W. VA.—T. Chalkley Hatton, Engr., 709 Equitable Bldg., Wilmington, Del., is preparing preliminary plans for a system of water-works for Romney, including reservoir, pumping plant and distribution mains. Estimated cost, $50,000.

GADSDEN, ALA.—Contracts have been awarded by the city as follows, for the construction of the water plant: To the CASEY-HEDGES CO., of Chattanooga, Tenn., for the boilers; to the HENRY R. WORTHINGTON CO., 115 Broadway, New York, for pumps, water heater and turbo-centrifugal engine; to the LAIDLAW-DUNN-GORDON CO., 115 Broadway, New York, for a 3,000,000-gallon pump; to the GENERAL CONTRACTING & CONSTRUCTION CO., of Atlanta, Ga., for the general construction and filters.

OWENSBORO, KY.—Bids will be asked by the city at once for the construction of a water softening plant at the city waterworks. Noted on Sept. 22. E. B. Miller is City Clk.

EUCLID, OHIO.—Bids will be received until Oct. 24 by Nelson J. Brewer, Village Clk., for furnishing material and improving Crosby Ave. by constructing a 12 and 16-in. water main. F. A. Pease Co. is Engr., 931 Williamson Bldg., Cleveland.

EAST LIVERPOOL, OHIO.—The city proposes to spend about $300,000 for the improvement of the entire water system. Alexander McBane is Dir. Pub. Ser.

CANTON, OHIO.—Bids will be received about Oct. 15 for the proposed water-works improvements. Estimated cost, $125,000. Ray F. Harbert is Dir. Pub. Ser.

COLUMBUS, OHIO.—Bids will be received until Oct. 12 for machinery to be driven by motors for the pumping station of the Columbus water-works department on the Scioto River. Bids will be received for both motor-driven loft-lift pump and motor-driven direct-service pump.

DUNKIRK, OHIO.—Bids will be received until Oct. 1 by the village for furnishing the necessary materials and labor for the construction of a water-works plant, in accordance with the plans and specifications on file in the office of the clerk, prepared by Charles Brossmann, Union Trust Bldg., Indianapolis, Ind. The plans call for 3,300 ft. of 8-in. pipe, 350 ft. of 6-in. pipe, 15,200 ft. of 4-in. pipe, 6,400 lbs. specials, 30 fire hydrants, three 8-in. valves, nine 4-in. valves, one steel tower and tank having a capacity of 50,000 gallons, one brick pumping station and power-house. J. T. Kinsey is Village Clk. Incorrectly noted on Sept. 15 as Dunkirk, Ind.

PORT CLINTON, OHIO.—We are officially advised that bids were received by the Board of Trustees of Public Affairs on Sept. 22 for constructing a filtration plant for the municipal water-works system here. Bids were asked for the entire construction, including low-service pumps, coagulating basins, filters, clear well, filter water reservoir coagulating devices, wash water pump and air blower. It is to be a mechanical filtration plant, having a daily capacity of 1,500,000 gallons. The bids follow: Norwood Engineering Co., Florence, Mass., $27,565; 365 days. Roberts Filter Mfg. Co., Farmers' Bank Bldg., Philadelphia, Pa., $27,625; 180 days. Doersbach Bros., Sandusky, Ohio, $25,759. Pittsburg Filter Mfg. Co., Pittsburg, Pa., $26,500. Scott Stahl is Pres. Bd.; William G. Clark is Consult. Engr., Spitzer Bldg., Toledo, Ohio.

CARTHAGE (Cincinnati post-office), OHIO.—Bids will be received at the office of the Board of Trustees of Public Affairs until noon, Oct. 3, for furnishing the necessary labor and material for installing water mains in McGregor Ave., Oak St., Spruce St., Cook Ave. and Second St. Walter G. Franz is Consult. Engr., Union Trust Bldg., Carthage.

MIDDLETOWN, OHIO.—Bids are asked by the Director of Public Service until noon, Sept. 29, for laying c.-i. water mains and setting fire hydrants, valves and constructing manholes in various streets.

DETROIT, MICH.—Bonds for $25,000 for the new pump and intake pipe were sold on Sept. 14.

TOULON, ILL.—The contract for erecting a 50,000-gallon steel tank and tower, bids opened on Sept. 15, has been awarded to the CHICAGO BRIDGE & IRON WORKS, 105th and Throop Sts., Chicago, at $3,790.

JACKSONVILLE, ILL.—Bids have been opened by the Commission of the Meredosia Lake Drainage and Levee District at the office of Charles W. Brown, Jacksonville, for the delivery and installation at the pumping station in the district of one simple condensing 4-valve engine of 114 HP.; one 72-in. boiler, 18 ft. in length; one single suction, 24-in. Volute pump with capacity of 15,000 gallons per minute; one surface condenser of 400 sq. ft. surface, necessary auxiliaries, etc. Contract has been awarded to the ERIE CITY IRON WORKS, of Chicago, Ill., at $10,000.

CHICAGO, ILL.—Bids will be received by B. J. Mullaney, Comr. Pub. Wks., until Sept. 29, for furnishing materials and removing old boilers, crosswall, boiler foundations and breechings; constructing and erecting the new boiler foundations, retaining wall, pipe trench and blow off basin, c.-i. water pipe, for setting brick work for boiler and furnaces, for constructing new breeching, building of pipe gallery, etc., at the 68th St. pumping station, 68th St. and Oglesby Ave.

PARIS, ILL.—H. P. Fisher, of Philadelphia, Pa., has reported the estimated cost of a filter plant here at $18,000 to $24,000.

AUDUBON, IOWA.—Bids will be received by R. C. Spencer, Mayor, until 7:30 p. m., Oct. 3, for the construction of a brick standpipe, upon a foundation already built, about 23 ft. in diameter and 20 ft. high. W. J. Laubender is Clk.

TAMA, IOWA.—Bids will be received by the City Clerk until Oct. 3 for a No. 2½ centrifugal pump, direct connected to an impulse water wheel. C. A. Baughman, of Ames, is Engr.

MERRILL, IOWA.—The Town Council has awarded contract for the construction of water-works to the LYTLE CONSTRUCTION CO., of Sioux City, Iowa, at $10,497.

*SIOUX CITY, IOWA.—We are officially advised that bids were received by the City Clerk and rejected on Sept. 17 for the installation of a deep well tubing, centrifugal pumping outfit, and station, as follows: W. H. Caler Co., Chicago, Ill., $11,867; R. B. Whitacre & Co., St. Paul, Minn., $11,661.

CHISHOLM, MINN.—Contract for the construction of two settling basins with a capacity of 300,000 gallons of water, was awarded on Sept. 4 to the AMERICAN BRIDGE CO., 30 Church St., New York, at $14,000.

EAST GRAND FORKS, MINN.—J. M. Carroll & Son, of Grand Forks, N. Dak., have secured the contract for the extension of the First Ward water main.

BRADLEY, S. DAK.—Bids will be received until Oct. 5 by the Board of Town Trustees, S. B. Caldwell, Chn., for constructing a complete system of water-works, including a 50,000-gallon elevated steel tank on a 100-ft. steel tower; erecting a brick and concrete pump house and fire station; furnishing and installing a deep well pump, and a gasoline or crude oil engine; also furnishing and laying about 7,000 ft. of 2 to 8-in. c.-i. water mains and furnishing and setting hydrants, etc. Hess & Rau are Engrs., Watertown.

BELLE FOURCHE, S. DAK.—Bids will be received at the office of the United States Reclamation Service, Federal Bldg., Los Angeles, Cal., until 2 p. m., Oct. 18, for furnishing c.-i. pipe, I-beams, grillage bars, etc., for the Belle Fourche project, S. Dak. For particulars address U. S. Reclamation Service, Federal Bldg., Los Angeles, Cal., or Washington, D. C. A. P. Davis is Acting Dir.

LOWELL, WYO.—We are officially advised that contract has been let to THOMAS S. SHEPPERD, of Denver, Colo., for all material and labor and installing complete one intake gallery, one 200 G. P. M. pump with power; one 50,000-gallon wood tank on 20-ft. wood tower; 6,950 ft. of 6-in. and 2,160 ft. of 4-in. wood stave pipe; all necessary valves, hydrants and accessories, at $18,955; also any quantity of 2-in. wood stave pipe at 60 cts. per lin. ft. Work is to be completed by Jan. 1, 1911. W. T. Lovell is Engr.-in-Charge.

SHOSHONE, WYO.—The Secretary of the Interior has awarded contracts for the construction and completion of the Frannie canal and lateral, Shoshone Irrigation project, Wyoming: To HILTON & FARLOW, of Shoshone, Wyo., Schedules 1, 2 and 4, involving 247,500 cu. yds. of excavation, at $49,305; to R. M. LYNN, of Lowell, Wyo., Schedule 3, involving 89,000 cu. yds. of excavation, at $23,110; to JOHNSON BROS. & SHUMWAY, of Lowell, Wyo., Schedule 5, 45,500 cu. yds. of excavation, at $8,175. The work includes the completion of about 2½ miles of canal already partly excavated, and the construction of about 15 miles of new canal.

DILLON, MONT.—The City Council on Sept. 7 decided to construct a new pipe line to the reservoir. Estimated cost, $10,000.

SANDERS, MONT.—New bids will be received, it is reported, until Oct. 1 by the Secretary of the Yellowstone Irrigation District, at Sanders, for enlarging the Sanders canal, involving the excavation and placing in embankment of 499,700 yds. of earth and constructing a 340-ft. tunnel and culvert. Henry Gerharz Engineering Co., Engrs., Billings.

CONWAY, ARK.—JOSEPH McCOPPIN, of Little Rock, secured contract on Sept. 15 for furnishing material and constructing water-works here, at $56,876.

DENISON, TEX.—The city is considering the construction of a pumping station and pipe line for Shawnee reservoir. W. W. Barry is Supt. Water Dept. Estimated cost, $50,000.

TEXAS CITY, TEX.—The Texas City Co., promoter of this place, of which Captain A. B. Wolvin, of Duluth, Minn., is at the head, will make extensive improvements, it is reported, at Texas City. A water-works and sewerage system will be constructed, an electric light plant installed and other improvements made. Plans for the erection of a hotel to cost about $150,000 are also under consideration.

STIGLER, OKLA.—The city has awarded contract to the SEQUOYAH ENGINEERING CO., 609 Merchants' National Bank Bldg., Fort Smith, Ark., for the construction of the proposed water-works and sewer system at $75,000.

GREELEY, COLO.—The Lower Latham Reservoir Co. has awarded contract for enlargement and improvement of Lower Latham reservoir, bids opened on Sept. 10, to McCARTY & DONOVAN, of Greeley, at $25,000.

TACOMA, WASH.—The INTERNATIONAL CONTRACT CO., Central Bldg., Seattle, has secured the contract for constructing the first unit of the Green River gravity water system at about $63,929. This work comprises a dam, intake, two reservoirs and a river crossing, the pipes to be laid under the bed of the stream. Construction of the pipe line from west bank of the stream to Tacoma will be done under separate contract, as will the storage reservoir at McMillan.

*NORTH YAKIMA, WASH.—Bids will be received at the office of the United States Reclamation Service, North Yakima, until 2 p. m., Nov. 1, for the construction of canals, wood stave pipe and other structures in the vicinity of Prosser, Wash. For particulars address the United States Reclamation Service, Sunnyside or North Yakima, Wash., or Washington, D. C. Frank Pierce is Acting Secy.

NORTH YAKIMA, WASH.—Bids will be received at the office of the Project Engineer, United States Reclamation Service, North Yakima, until 2 p. m., Oct. 29, for the excavation of about 73 miles of sub-laterals, Tieton unit of Yakima project. For particulars address the United States Reclamation Service, Fourth Ave. and B Sts., North Yakima. Charles H. Swigart is Superv. Engr.

SEATTLE, WASH.—See item under Streets and Roads.

FORT GEORGE WRIGHT, WASH.—Contract has been awarded to FRANK C. BUTTZ, of Indianapolis, Ind., at $6,775, for sinking a well here.

*PORTLAND, ORE.—Bids will be received at the office of the United States Reclamation Service, Portland, until 2 p. m., Nov. 30, for the construction of the Lost River diversion channel, located about seven miles southeast of Klamath Falls, Ore., Klamath project, California-Oregon. This work consists of constructing about seven miles of drainage channel and involves about 330,000 cu. yds. of excavation and embankment. For particulars address the United States Reclamation Service, Washington, D. C.; Portland, or Klamath Falls. Frank Pierce is Acting Secy.

VALLEJO, CAL.—The citizens on Sept. 8 voted to issue $40,000 of bonds for the improvement of the municipal water-works.

SAN FRANCISCO, CAL.—Contracts for hauling and laying c.-i. high-pressure mains, conduits and appurtenances of the auxiliary salt-water fire protection system in the district bounded by the westerly line of Powell St., the southeasterly line of Market St., the westerly line of Van Ness Ave., and the bay of San Francisco, will shortly be awarded by the Board of Public Works, the Board of Supervisors having authorized the expenditure of $110,000 for this purpose. Marsden Manson is City Engr.

KINGSBURG, CAL.—Olmsted & Gillelen, Civil Engrs., Wright & Callender Bldg., of Los Angeles, are designing a municipal water system for Kingsburg.

LORDSBURG, CAL.—We are officially advised that bids will be received about Dec. 26 for a municipal water system, including centrifugal pumps, elevated tank, etc. Olmsted & Gillelen, Wright & Callender Bldg., Los Angeles, are Engrs.

PROVO, UTAH.—Bids will be received by Ralph Elliott, City Recr., until Oct. 3, for constructing water-works pipe line. Estimated cost, $95,000. E. A. Jacobs is City Engr.

GUNNISON, UTAH.—The City Council on Sept. 10 awarded contract for pipe line trench for the new water-works to H. L. ERICKSON at $320 per mile for trenching, laying and covering.

MONTREAL, QUE.—Bids for the steel and concrete work for the new intake pipe have been opened by the Board of Control, as follows: Haney, Quinlan & Robertson, $186,500; Laurin & Leitch, $169,463; Lemoine & Sons, $155,000; Harris & Co., $197,623; Beaudry & Leman, $185,000; M. Connelly, $184,200. Munderloh & Co. and John Inglis Co. bid for parts of the work.

EDMUNDSTON, N. B.—Contract for the installation of a water-works distribution system has been awarded to QUELLET & JACQUES, of Deschaillons, Que., at $35,381. Other bids were: Kennedy & McDonald, Edmundston, $47,353; O. Pelletier, Cabano, Que., $60,800; J. J. O'Connor, Edmundston, $55,029.

MATAMOROS, MEX.—La Compania Agricola la Sautena of Mexico City will let the contract this month for the construction of a large system of irrigation. The main canal will be 63 miles long and will involve the moving of about 9,000,000 cu. yds. of earth. The system will also require the building of more than 200 miles of laterals. A large concrete dam will be constructed across the San Juan River, at a point near the mouth of that stream, where it empties into the Rio Grande about 100 miles above here, to divert the whole flow of the San Juan River into the main canal of the company's irrigation system. More than 600,000 acres of land, extending along the Rio Grande from Matamoros to the San Juan River, will be brought under irrigation. Estimated cost of canal system, dam and other improvements, about $10,000,000 gold.

SEWERS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids will be received until Oct. 3 by Louis K. Rourke, Superintendent of Streets, for the construction of sewers in Quint Ave and Atkins St.

BOSTON, MASS.—The contract was awarded on Sept. 21 to MURPHY & DOLAN at $4,347 for constructing a sewer in Maynard St. Other bidders were: Antony Cafalo, $4,521; C. J. Jacobs Co., $4,534; McCarthy & Walsh, $4,571; Geo. J. Regan, $4,713; Commonwealth Construction Co., $5,065; E. F. Kennelly, $5,202; A. M. Cusack, $5,390; Mark H. Lynch, $6,431. Louis K. Rourke is Superintendent of Streets.

HARTFORD, CONN.—Contracts for sewer work, bids for which were opened Sept. 20, have been awarded by the Board of Contract and Supply as follows: To the HARTFORD PAVING & CONSTRUCTION CO., Hartford, Conn., Washington and School Sts. sewers, $782; conduit from Sisson Ave. to Tremont St., $12.899. Other bidders on this latter work were Thomas Stafford & Co., Hartford, Conn., $18,450; Oneill Bros. & Nero, Hartford, Conn., $16,629; Charles H. Slocomb, Hartford, Conn., $16,300.

WESTFIELD, N. Y.—The village taxpayers have voted to spend $100,000 for the installation of a sewage system and disposal plant, plans for which have already been drawn and approved by the State Board of Health.

ROCHESTER, N. Y.—Bids are being asked for the construction of a sewer in University Ave. from Winton and Blossom Roads. Estimated cost, $14,000.

LESTERSHIRE, N. Y.—Bids will be received until Oct. 3 by the Board of Trustees for the Main St. sewer, work to be begun about the middle of October. Estimated cost, $20,000.

ALBANY, N. Y.—See item under Streets and Roads.

BUFFALO, N. Y.—The Board of Aldermen has ordered the construction of sewers in the following streets in accordance with plans and specifications on file in the office of the Bureau of Engineering: Theodore St., between Genesee and Block Sts., 12 and 10-in. tile; Clayton St., between Race St. and Layer Ave., 15 and 12-in. tile; Kensington Ave. (South Side), between Palos Pl. and Deerfield St., 18 and 10-in. tile; Deerfield St., between Kensington Ave. and Mendola St., 18 and 10-in. tile; Roosevelt St., from Bailey Ave., 1,920 ft. east, 20, 18, 15, 12 and 10-in. tile; Hollywood Pl., from South Side Parkway, 900 ft. east, 15, 12 and 10-in. tile. Francis G. Ward is Comr. of Public Works.

*SONYEA, N. Y.—The Board of Managers of the Craig Colony of Epileptics, Percy L. Lang, Prest., will receive sealed bids until 2 p. m., Oct. 11, for alterations to sewage disposal plant in accordance with plans in office of Franklin B. Ware, State Arch., Albany.

BELMAR, N. J.—Bids will be received until Oct. 4 for the construction of sewage disposal works. Estimated cost, $18,000.

CAMDEN, N. J.—The Collingwood Sewerage Co. will build a concrete septic tank 125 × 23 × 7 ft., which will have a capacity of 200,000 gallons. Plans have been approved by the State Board of Health.

NEW BRUNSWICK, N. J.—The Common Council has passed a resolution providing for a sewer in Commercial Ave.

NEWARK, N. J.—A contract has been awarded D'AMATO & STEFANELLI for laying 420 ft. of 10-in. and 80 ft. of 6-in. sewer pipe. M. R. Sherrerd is City Clerk.

HADDONFIELD, N. J.—Bids will be received by the Street Committee until 8 p. m., Oct. 3, for laying about 2,500 ft. of pipe storm sewer. The work includes laying 1,135 ft. of 30-in. terra cotta pipe and 1,140 ft. of 36-in. terra cotta pipe, three manholes, 17 inlets with connections and appurtenances, as shown upon the plans in the office of the Engineers, Sartori & Remington, 207 Temple Bldg., 415 Market St., Camden, N. J. Allen Clymer is Boro. Clerk.

*BLOOMFIELD, N. J.—Bids will be received by the Town Clerk until 8 p. m., Oct. 4, for the construction of sewers in Cross, Orange and Franklin Sts., as follows: 1,630 lin ft. 36-in. pipe; 250 lin. ft. 33-in. pipe; 720 lin. ft. 30-in. reinforced concrete pipe; 150 lin. ft. 24-in. tile pipe; 370 lin. ft. 15-in. tile pipe; 16 catch basins complete; 11 manholes complete. Ernest Baechlin, Bloomfield National Bank Bldg., is Town Engr.

WESTCHESTER, PA.—A. F. Damon, the special engineer for the proposed sewer and disposal plant, has completed the plans and will present them to the Borough Council.

NORRISTOWN, PA.—Bids will be received by the Sewer Committee until 8 p. m., Oct. 12, for constructing a sanitary sewer in Pine St. Plans and specifications on file in the office of S. Cameron Carson, Boro. Engr.

PHILADELPHIA, PA.—Bids will be received until noon, Oct. 4, for constructing branch sewers. Plans on file in the office of Bureau of Surveys. George R. Stearns is Dir. of Public Service.

CHARLOTTE, N. C.—The City Water Works and Sewage Board has awarded the contract for constructing sewer improvements to John I. Dick, of Scottdale, Pa., at $20,000.

CLEARWATER, FLA.—Bids are asked by the city until Oct. 1 for construction of proposed sanitary sewerage system consisting of 2¼ miles of pipe. W. W. Lyon, Consult. Engr., Duval Bldg., Jacksonville, Fla.

CANTON, OHIO.—Bids for the construction of a sanitary sewer in St. Elmo St. from Lake St. to Aultman Ave. have been received by Roy Harbert, Dir. Bd. Pub. Service, from Burd & Downs, Steeles & Campbell, F. A. Downs, Jones & Talarico and Peter Christensen. The bids were turned over to P. H. Weber, City Engr., for tabulation.

COLUMBUS, OHIO.—Bids will be received by the Director of Public Service until noon Oct. 5 for the following improvements:

Sewer in Grace St. from Eldon Ave. to Harris Ave.; sewer in the alley west of Oakley Ave. from Sullivant Ave. to the alley south of Broad St., Ray St., Palmetto St., alley north of Palmetto St.; alley north of Plum St.; alley north of Parmola St. and the alley north of Louden St. from the alley west of Oakley Ave. to Park Ave., Logan St. from the alley west of Oakley Ave. to Park Ave.; Park Ave. from Logan St. to Fremont St., Fremont St. from Park Ave. to the alley west of Eureka Ave.; alley west of Eureka Ave. from Fremont St. to a point opposite lot No. 31, Belleaire Addition; and the alley west of Park Ave. from Fremont St. to a point opposite lot No. 95 Belleaire Addition. Sewer in Richardson Ave., from Grace St. to the alley north; the alley north of Grace St., from Richardson Ave. to Burgess Ave.; the alley west of Burgess Ave., from Grace St. to the alley north; the alley north of Grace St. from Burgess Ave. to the alley west of Ogden Ave; the alley west of Ogden Ave. from Grace St. to Steele Ave; and Ogden Ave., from the alley north of Grace St. to Steele Ave. Henery Maetzel is City Engr.

CINCINNATI, O.—The City Engineering Department is making a survey for a sewerage system which will include the entire eastern section of the city. F. H. Shipley is City Engr.

UPPER SANDUSKY, OHIO.—We are officially advised that the contract for the construction of the Warpole sewer was awarded on Sept. 24, to P. DRAKE & SONS at $3,971. C. H. Beansay is City Engr.

MASSILLON, OHIO.—Bids will be received by the director of Public Service until noon, Oct. 3, for the construction of a sanitary sewer in Sippo St. from Lincoln Ave. to McLain St. Harold Howald is City Engr.

LANCASTER, OHIO.—The contract for laying 3,242 ft. of 24-in. sewer pipe for the West Side sewer has been awarded by R. F. Brown, Dir. Bd. Public Service, to JOHN B. CLOVER at $3,000.

SHELBYVILLE, IND.—Bids will be received by the City Council until Nov. 1 for constructing a sanitary sewer system. Estimated cost, $37,000. James Phillipsi is City Engr.

INDIANAPOLIS, IND.—See item under Streets and Roads.

MUSKEGON, MICH.—Bids will be received until Oct. 3 by B. H. Fellman, City Recdr., for constructing sewers in District No. 17, 1,247 ft. in length, and in District No. 18, 250 ft.

DETROIT, MICH.—The Common Council instructed the Board of Public Work, J. J. Haarer, Comr., to advertise for proposals for the furnishing of all labor and materials for the following sewers: Harbough Ave. from Dearborn Ave. to alley north of Cedar St., 1,630 ft. of 36-in. pipe; Selden Ave. from Fourth Ave. to alley, 150 ft. of 18-in. pipe; Buchanan St. from Roosevelt Ave. to alley, 270 ft. 24-in. pipe; also for the construction of the following vitrified sewers: In alleys in block bounded by Woodmere, Elsmere, Krupp and Blackstone Aves; in alleys in block bounded by Cooper, Pennsylvania, Shoemaker and Gratiot Aves; in alleys in block bounded by Woodmere, Elsmere Aves., Fort St. and Blackstone Ave.; in alleys in block bounded by Crane, Holcomb, Dumontier and Kolb Aves.; in alleys in block bounded by Elsmere, Lawndale, Fulton and Cottage Grove Aves.; in alleys in block bounded by Woodmere Ave. Rail Way, Stone and Fort Sts.; in alleys in block bounded by Cass, Grand, River and Bagley Aves. and Park Pl.; in alleys in block bounded by Collins and Moran Sts., Milwaukee and Sargeant Aves.; in alleys in block bounded by Military and Cavalry and Hussar Aves.; in alleys in block bounded by Gilbert and Hart Aves., Charlevoix and Goethe Sts.; in alleys in block bounded by First St. and Cass Ave., Congress and Fort St. The city is to furnish cement, manhole rings and covers. R. H. McCormick is City Engr.

*LEWISTOWN, ILL.—Bids will be received by the Board of Local Improvements until noon Oct. 20, for the construction of a sanitary sewer system, as follows: 11,781 ft. 8-in., 3,050 ft. 10-in., 992 ft. 12-in., 1,237 ft. 15-in. vitrified pipe, concrete septic tank and 38 manholes. H. J. Efnor is Clerk of the Board.

MURPHYSBORO, ILL.—Bids will be received by Dan Bower, County Clerk, until 8 p. m., Sept. 30, for excavating 215,260 cu. yds. of earth and for dredging 347,483 cu. yds of earth; also laying 5,000 ft. of tile pipe. Plans and specifications are on file in the office of the County Clerk.

RICHLAND CENTER, WIS.—Bids will be received until 7 p. m. Sept. 30 by the Board of Public Works for constructing a sewer in Gage and Sheldon Sts.

*WEST ALLIS, WIS.—The contract for the construction of sewers in various parts of the city has been awarded L. W. SCHRUTH, of Fargo, N. D., as follows: 3,338 ft. of 18-in. sewer, $2.30; 1,034 ft. 15-in. sewer, $1.58; 2,240 ft. of 12-in. sewer, $1.38; 634 ft. of 10-in. sewer, $1.25, and 6,234 ft. of 8-in. sewer, $1.00. Fred Schneider is City Engr.

BELLE PLAINE, IOWA.—The City Council has ordered surveys for the sewer outlet for sanitary sewer system. The surveys, plans and specifications for the sanitary sewer system have already been made and completed. The Council proposes to have the plans for the sanitary sewer outlet made, and to secure the necessary land for the outlet, and probably let contracts this fall.

CLOQUET, MINN.—The contract for laying of 7,000 ft. of 8-in. sewer pipe and 7,700 ft. of 6-in. water main, together with 18 manholes has been awarded PASTORET & LAWRENCE, of Duluth, Minn. E. S. Spencer is City Engr.

DULUTH, MINN.—Bids will be received by the Board of Public Works until 10 a. m., Sept. 30, for constructing the following sewers: In Juniata St. from 54th Ave. to 60th Ave.; in Restormel alley from Atlantic to Pacific Aves.; in the alley between Glenwood and Oneida Sts., from 57th Ave. to 60th Ave.; in Eighth alley from Ninth to Eleventh Aves.; in Regent St. from 40th to 42d Sts.; in Restormel St. from Bryant to Second Sts.; in Wyoming St. from 54th to 60th Aves.; in Wicklow alley from Michigan Ave. to Winnipeg Ave.; in Princeton Ave. from Oxford to St. Andrew Sts.; in 61st alley from Polk St. to Sherburne St., and in Glenwood St. from 54th Ave. to 58th Ave. R. Murchison is Clerk of the Board of Public Works.

JEFFERSON CITY, MO.—Bids will be received by the City Council until 4 p. m., Oct. 3, for the construction of sewers in Sewer District 12. E. F. C. Harding is City Engr.

LITTLE ROCK, ARK.—The Board of Public Affairs has instructed Secretary Frank Oliver to advertise for bids for the construction of a storm sewer in Main St. from Second St. to the river.

DALLAS, TEX.—The City Commission has instructed J. M. Preston, City Engr., to prepare plans and specifications for the construction of storm sewers northeast of Masten St., extending to the Houston & Texas Central tracks. Estimated cost, $19,000.

TEXAS CITY, TEX.—See item under Water Supply—Irrigation.

STIGLER, OKLA.—The city has awarded contract to the SEQUOVAH ENGINEERING CO., Merchants' National Bank Bldg., Fort Smith, Ark., for proposed sewer and waterworks system at $75,000.

ELLENSBURG, WASH.—The City Council has awarded the contract for the northwest sewer improvement to KIBBER & MOORE at $21,979.

EVERETT, WASH.—The City Council has passed an ordinance providing for what is known as the Capitol Hill sewer.

SPOKANE, WASH.—See item under Streets and Roads.

SEATTLE, WASH.—See item under Streets and Roads.

SEATTLE, WASH.—The City Council has passed an ordinance for the construction of sewers in Latona Ave. Estimated cost, $6,500.

ROSEBURG, ORE.—The City Council has awarded to WINNIE GADDIS the contract for the construction of the complete sewerage system in North Roseburg, at an estimated cost of $19,000.

BIGGS, CAL.—We are officially advised that the city is preparing to construct a sanitary sewerage system. Haselwood, Jones, Doane & Hanscom, Monadnock Bldg., San Francisco, Cal., are Engrs. Estimated cost, $15,000.

SAN FRANCISCO, CAL.—R. C. Storrie & Co. were the lowest bidders recently for the work of putting in Section C1 of the North point main sewer. Their bid was $98,255.

HANFORD, CAL.—Estimates in regard to the sewer in Irwin St. has been furnished to the Board of Trustees by Charles P. Jensen, C. E., of Fresno, Cal., as follows: 7,000 ft. of 24-in. sewer pipe, 1,800 ft. of 18-in. pipe and 1,400 ft. of 16-in. pipe, together with septic tank. Estimated cost, $26,000.

LOS ANGELES, CAL.—The City Council has passed Ordinance 20,716 for a sewer to be constructed in Ave. 37. A. A. Hubbard is Pres. Bd. Public Works.

LOS ANGELES, CAL.—The City Council has passed Ordinance 20,905 for property owners to construct a sewer in Robinson St. from Temple to London Sts. under private contract; also Ordinance 20,904 authorizing property owners to construct a sewer in Santa Fe Ave. from Edwin to Eleventh St. Homer Hamlin is City Engr.

LOS GATOS, CAL.—Resolutions have been adopted to construct a sewer on Saratoga Ave. from the manhole opposite the intersection of center of Santa Cruz Ave., running west for 1,170 ft. It is to be constructed of 6-in. vitrified sewer pipe.

SANTA CRUZ, CAL.—Resolutions to construct a sewer at Soquel Ave. and Front St. has been adopted; also in a portion of Emmet and Court Sts., in accordance with plans on file with the City Clerk. C. E. Greenfield is Supt. of Streets.

PASADENA, CAL.—The City Council has passed Resolution 2859 for a sewer to be constructed in Mentor Ave., [illegible], Rio Grande, Denver, Elizabeth, [illegible] and Atchinson Sts. Heman Dyer, is City Clerk.

OAKLAND, CAL.—Bids will be received by the Board of Public Works until 10 a. m., Oct. 6, for the construction of a storm sewer in Market and Seventh Sts. Frederick C. Turner is City Engr.

YUMA, ARIZ.—The Mayor has received plans and specifications for a sewer system prepared by J. C. Clause, of Los Angeles.

SALT LAKE CITY, UTAH.—Contracts for three improvements were awarded by the Board of Public Works recently. The contracts and the successful bidders are as follows:

Sewer Extension 274, 650 ft. on Church St.—DALE L. PITT, $1.11 a front ft. for the half rate. Sewer Extension [illegible], about 400 ft. on Floral Ave.—DALE L. PITT, 99 cts., half rate. Curb and Gutter Extension 15, Second Ave. between Virginia and Alta Sts and Alta between Second and Third Aves.—C. E. PALM, $1.48 a front ft. abutting property. Estimates as follows were approved: Seventh partial estimate on Sewer Extension 220, James Kennedy, $17,171; final estimate Sewer Extension 249, James Kennedy, $6,167.

TRENTON, ONT.—G. CROW & SON, of Trenton, has secured the contract for constructing the sewerage system, which includes laying 824 ft. of 15-in., 1,4[illegible] ft. of 12-in., 987 ft. of 8-in. pipes and manholes, as well as the building of a sedimentation tank. The bids were as follows: G. Crow & Son, Trenton, $4,215; E. B. Merrill, Toronto, $4,536; H. Taylor, Belleville, $5,100; J. W. Liton, Kingston, $7,045.

RAINY RIVER, ONT.—For the installation of a sewerage system the NATIONAL PAVING & CONTRACTING CO., of Winnipeg, have been awarded a contract at $18,239.

BARRIE, ONT.—Bids will be received until noon, Oct. 1, by the Town Clerk for the construction of Main St. sewers. The work will be let in four sections, and bids will be received for one or more sections as follows:

Contract A, Clapperton St., approximately 2,077 ft. 10-in. pipe, five manholes, 1 flushtank; contract B, Small St., approximately 1,674 ft. 10-in. pipe, 3 manholes, 1 flushtank; Contract C, William St., approximately 713 ft. 8-in. pipe, 1 manhole, 1 flushtank; Contract D, Bradford and Ross Sts. West, approximately 1,738 ft. 12-in. pipe and 746 ft. 8-in. pipe, six manholes and two flushtanks. K. S. MacDonell is Engr.

PRINCE ALBERT, SASK.—Bids will be received until Sept. 30 for the supply and erection of two centrifugal, electrically-driven, automatic control sewage pumps. C. O. Davidson, City Clerk.

VANCOUVER, B. C.—The following bids have been received for sewer pipe: Evans, Coleman & Evans, $19,315; Dominion Glazed Cement Pipe Co., $24,500; G. Gardiner Johnston & Co., $26,265.

FERNIE, B. C.—The contract for extending the sanitary sewer system has been awarded to I. I. WOOD, his bid, $12,500, being the lowest of seven.

GARBAGE DISPOSAL.

BOSTON, MASS.—Bids are asked by Louis K. Rourke, Supt. of Streets, until noon, Oct. 17, for the disposal of refuse for a period of ten years from Jan. 1, 1912.

For removing ashes in Ward 16 contract has been awarded by the city to PATRICK J. LYONS at $9,625. Other bidders were: Eugene Sullivan, $8,750; John H. Winsloe Co., $9,938; John J. Loonie, $9,968.

OKLAHOMA CITY, OKLA.—The Mayor, it is reported, has granted permission to Peter Brewer, Health Supt., to install an incinerating plant near Wheeler Park.

COALINGA, CAL.—F. J. Boland, City Engr. is preparing plans for a municipal garbage incinerator.

STREETS AND ROADS.

*(*Denotes that this work is advertised in Engineering News.)*

DRACUT, MASS.—The contract for constructing the State highway here was awarded on Sept. 13 by Harold Parker, Chm., Massachusetts Highway Comn., to F. J. MAGUE, West Newton, at $4,202.

MONSON, MASS.—The Board of Selectmen recently awarded the contract for the concrete sidewalk work to be done this year in Monson, to JOHN W. ROCHFORD, of Springfield. The contract includes the resurfacing of old walks as well as the new walks to be laid.

ROCKPORT, MASS.—The Massachusetts Highway Comn., Harold Parker, Chm., on Sept. 13 awarded the contract for constructing the State highway in Rockport to TONY LEO THOMPSON, of Boston, at $4,906. Other bidders were: T. A. Moynihan & Son, Hamilton, at $5,779; F. J. Mague, of West Newton, at $5,493; H. L. Thomas, of Middleboro, at $5,875; F. E. Ellis, of Melrose, at $5,895; R. P. Hudson, of Melrose, at $5,903; L. C. Corchia, of Boston, at $6,061.

HARTFORD, CONN.—Bids for the construction of State road work were received by the State Highway Commissioner on Sept. 23, as follows:

Town of Cromwell, 6,000 lin. ft. gravel-telford road, including one 24-in. and one 18-in. tile culverts and one reinforced concrete arch culvert: (a) gravel, (b) telford, (c) rubble drain, (d) cobble gutters. Donahue Bros., Middletown, Conn., (a) $1.49, (b) $2.19, (c) $1.15; Roger Kennedy, Middletown, (a) $1.54 (b) $2.15, (c) $1; Pierson Engineering & Construction Co., Bristol, Conn., (a) $1.90, (b) $2.75, (c) $1; Ahern Bros., Norwich, Conn., (a) $1.62, (b) $2.25, (c) $1, (d) 70 cts. per sq. yd.; F. Arrigoni & Bro., Durham, Conn., (a) $1.45, (b) $2.05, (c) $1; A. Brazos & Sons, Middletown, (a) $1.43, (b) $1.83; Joseph D. Aloia, 1 North Sq., Boston, Mass., (a) 97 cts., (b) $2.15, (c) $1.15; Lane Construction Corp., **Meriden, Conn., (a) $1.29, (b) $1.90, (c) 90 cts.**

Town of **Easton, 7,635 lin. ft. graded telford road, including three 15-in. and six 18-in. tile culverts: B. D. Pierce, Jr. Co., of** Bridgeport, **Conn., $15,600 for grading and** 65 cts. per **lin. ft. extra for telford; E G.** Pardee, Bethany, **Conn., $26,950 and 65 cts.;** B. N. Beard **Co., Shelton, Conn, $20,500 and** 65 cts.

Town of **Manchester, 8,508 lin. ft. gravel-telford road, including seven 15-in. and one** 18-in. tile **culverts: (a) gravel, (b) telford,** (c) rubble **drain, (d) cobble gutters. W. M.** Bolf, Hartford, **Conn., (a) $2.12, (b) $3.12,** (c) $1, (d) **$1.50; Pierson Engineering &** Construction **Co., of Bristol, (a) $2.60, (b)** $3.30, (c) **$1, (d) 75 cts.; Ahern Bros.,** Norwich, **(a) $1.88, (b) $2.50, (c) $1.05,** (d) 75 cts.; **A. D. Bridge's Sons Co., Haz**ardville, **Conn., (a) $1.77, (b) $2.37, (c)** $1, (d) 60 cts.; **Sternberg & Cadwell, West** Hartford, **Conn., (a) $1.79, (b) $2.25, (c)** $1, (d) 75 **cts.; Thomas Kearney, Meriden,** (a) $2.25; **A. Brazos & Sons, Middletown,** (a) $1.95, **(b) $2.35, (c) 85 cts., (d) 60 cts.;** Lane Construction **Corp., Meriden, Conn.,** (a) $1.63, **(b) $2.18, (c) 90 cts., (d) 70 cts.**

Town of **Woodbridge, 2,200 lin. ft. gravel-telford** road, **including three 15-in. tile culverts.** E. **G. Pardee, $2.53 per lin. ft. for** gravel, 65 **cts. for telford and $1 for rubble** drain; F. **Arrigoni & Bro., Durham, Conn.,** $3.24, $3.84 **and $1.**

Town of **Chester, 4,618 lin. ft. graded-telford** road, **including three 15-in., two 18-in.** and one **24-in. tile culverts and one rein**forced concrete **arch culvert: (a) grading** lump sum, **(b) telford per lin. ft., (c) rub**ble drain. **Roger Kennedy, Middletown,** Conn., (a) **$7,989, (b) $2.40, (c) $1; B. D.** Pierce, Jr., **Co., Bridgeport, Conn., (a) $10,**820, (b) **65 cts., (c) 60 cts.; William Ma**loney, West **Hartford, Conn., (a) $11,083,** (b) $1, **(c) $1; E. G. Pardee, Bethany,** Conn., (a) **$9,999; Lewis F. Merritt, Stam**ford, Conn., **(a) $8,461, (b) $1, (c) $1.25;** F. **Arrigoni & Bro., Durham, Conn., (a)** $12,415, (b) **60 cts., (c) $1; A. Brazos &** Sons, Middletown, **Conn., (a) $12,468, (b)** 40 cts.; **Joseph D. Aloia, 1 North Sq., Bos**ton, Mass., **(a) $10,200, (b) 75 cts., (c) 85** cts.; Lane **Construction Corp., Meriden,** Conn., (a) **$6,900, (b) 60 cts., (c) 90 cts.**

Town of **Warren, 3,341 lin. ft. graded-tel**ford road. **Joseph Mascetti, Torrington,** Conn., $10,025 **for entire grading and 90 cts.** per lin. ft. **extra for telford and $1 for rub**ble drain; **B. D. Pierce, Jr., Co., Bridge**port, $11,600, **65 cts. and 70 cts.; Lane Con**struction **Corp., Meriden, $8,520, 45 cts. and** 90 cts.

HARTFORD, CONN.—**Bids for the follow**ing State **road work will be received by the** State **Highway Commissioner until 2 p. m.,** Sept. 30:

Town of **Killingly, one section, 6,780 lin.** ft. graded-**telford road, including one 12-in.,** four 15-in., **one 18-in. and one 24-in. tile** pipe culverts; **one section, 6,075 lin. ft.** macadam-**telford road, including one 15-in.** and one 24-in. **tile pipe culverts. Plans and** specifications **with John A. Gilbert, First** Selectman, **Danielson, Conn.**

Town of **Union, two sections, 5,222 lin. ft.** graded-telford **road, including one 12-in., one** 15-in. **and four 18-in. tile pipe culverts.** Plans **and specifications with L. M. Reed,** Union, **Conn.**

Town of **Vernon, 7,280 lin. ft. macadam-**telford **road, including four 15-in., one 18-**in. and one **12-in. tile culverts. Plans and** specifications **at Selectmen's office, Rock**ville, **Conn.**

Town of **Farmington, 2,011 lin. ft. mac**adam-telford **road, including one 12-in. tile** culvert. **Plans and specifications with E. M.** Ryan, **First Selectman, Unionville, Conn.**

Town of **Rocky Hill, 6,948 lin. ft. graded** or macadam **road, including two 12-in. tile** pipe culverts **and one reinforced concrete** arch culvert. **Plans and specifications with** H. A. Ely, **First Selectman, Rocky Hill,** Conn.

City of **Hartford, 1,535 lin. ft. macadam-**telford **road. Plans and specifications with** F. L. Ford, **City Engr., Hartford, Conn.**

HARTFORD, CONN.—**Plans for proposed** State road **work have been received in the** office of the **State Highway Commissioner as** follows:

From **Alexander Cahn, Engr., 12,500 lin.** ft. on the **Wolcott road in the city of Water**bury, 16,300 **lin. ft. on the Killingworth** road in the **town of Madison, 23,500 lin. ft.** on the North **Madison road in the town of** Madison.

From D. G. **Bush, Engr., 10,000 lin. ft. on** the Torrington **road in the town of Norfolk.**

From R. S. **Hulbert, Div. Engr., 2,450 lin.** ft. on the **Waterbury road in the town of** Watertown.

NEW YORK, N. Y.—**Bids will be received** until 2 p. **m., Oct. 6, by Kingsley L. Martin,** Comr. Dept. **of Bridges, for furnishing and** delivering **wood paving blocks to the Wil**liamsburg **Bridge.**

Bids will **be received by the Department** of Parks **until 3 p. m., Oct. 6, for construct**ing cement **curb and sidewalks along the** Richmond **Turnpike front of Silver Lake** Park, Boro. **of Richmond. Charles B.** Stover is **Pres. and Thomas J. Higgins and** Michael J. **Kennedy are Comrs.**

Bids are **asked by George McAneny, Pres.,** Boro. of **Manhattan, until 2 p. m., Oct. 5,** for regulating **and repaving with sheet** asphalt **on a concrete foundation, various** streets.

Bids will **be received until 11 a. m., Oct. 5,** by Alfred **E. Steers, Pres., Boro. of Brook**lyn, for **regulating, grading, curbing and lay**ing sidewalks **on various streets in Brook**lyn.

NEW YORK, N. Y.—**The following bids** were received **by George Cromwell, Pres.,** Boro. of **Richmond, on Sept. 20, for furnish**ing all the **labor and materials required for** regulating **and repaving with bituminous** concrete **pavement on a concrete foundation** the roadway **of Brighton Ave., from Jersey** St. to Glen **Ave., and on the present mac**adam foundation **the roadway of Brook St.,** from Broad **St. to Water St., together with** all work **incidental thereto: Uvalde Asphalt** Paving Co., **1 Broadway, $15,834; Barber As**phalt Paving Co., 30 Church St., $16,675; Standard Bithulithic Co., 30 Church St., $18,068.

NEW YORK, N. Y.—The following bids were received on Sept. 23 by George McAneny, Pres., Boro. of Manhattan, for regulating and repaving with sheet asphalt pavement on a concrete foundation the roadway of the following streets and avenues: Mulberry St., from the north side of Broome St. to the south side of Bleecker St., and Fifth St., from the west side of Avenue E to east side of the Bowery: 1A, for maintaining the asphalt pavement on different streets in the Boro. of Manhattan; 2A, for maintaining the asphalt pavement on different streets in the Boro. of Manhattan; 3A, for maintaining the asphalt pavement on different streets in the Boro. of Manhattan: Barber Asphalt Paving Co., 30 Church St., $7,973, $24,040; Sicilian Asphalt Paving Co., 41 Park Row, $7,329, $23,837; Uvalde Asphalt Paving Co., 1 Broadway, $6,641, $24,424. Uvalde Asphalt Paving Co., 1A, $15,745; 2A, $20,545; 3A, $27,265. Sicilian Asphalt Paving Co., 1A, $22,615; 2A, $21,290; 3A, $38,215. Vulcanite Paving Co., 1A, $14,215; 2A, $18,515; 3A, $24,535.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., Oct. 3, for the improvement of Cherry St., from Broadway to Franklin St., including the paving of the carriageway with vitrified shale paving blocks, laying of sewers, etc., and for the improvement of Emmet St., from Broadway, west, including the paving of the carriageway with vitrified shale paving blocks on a concrete foundation; also for manufacturing, furnishing and installing a 20-ton hand-power traveling crane at the Quackenbush St. station, and for manufacturing, furnishing and delivering 6-in. c. i. water pipes for the Bureau of Water. Walter Melius is City Engr.

BUFFALO, N. Y.—The Common Council at a recent meeting ordered the paving of Faxon Ave., north of Clinton St., 26 ft. wide, with round edge shale brick on concrete base. Also the repaving of the following streets: Bryant St., 28 ft. wide, between Main St. and Delaware Ave., with Trinidad asphalt; Woodlawn Ave., 30 ft. wide, from Jefferson St. to Humboldt Parkway, with Trinidad asphalt, all in accordance with plans and specifications on file in the City Engineer's office. Francis G. Ward, the Comr. of Public Works, City Hall, has been authorized to prepare plans and specifications and advertise for bids for repaving Trinity Pl., 20 ft. wide, between Delaware Ave. and Virginia St., with Trinidad asphalt and for other kinds of pavement.

THE CONSTRUCTION CO. of Buffalo has been awarded contract for paving Albert St., 20 ft. wide, with round edge shale brick on concrete base between Ontario and Hunt Sts., at $5,000.

The Board of Aldermen and City Council have ordered the paving of the following streets in accordance with plans and specifications on file in the office of the Bureau of Engineering: Garrison St., 24 ft. wide, with Medina sandstone on concrete base, from South Michigan St. to the northwest end of Garrison St.; Krupp st., 28 ft. wide, with asphalt on concrete base, between Broadway and the New York Central R. R. yards; Rano St., 30 ft. wide, with asphalt, from Riverside Ave. to the north end of Rano St. Also the repairing of South Parade Ave., 30 ft. wide.

OLEAN, N. Y.—The Commissioners of Public Works are readvertising for bids to be received until 8.30 p. m., Oct. 12, for 1,700 sq. yds. of vitrified brick paving and 9,000 lin. ft. of stone curbing, to be laid on West Henley St., in accordance with plans and specifications on file at office of H. R. Fordsworth, Engr.

SARATOGA SPRINGS, N. Y.—Bids will be received until 2 p. m., Oct. 14, by John K. Walbridge, Treas. of Saratoga County, at Saratoga Springs, for the purchase of $50,000 worth of bonds of Saratoga County, N. Y., issued to pay for State Roads Nos. 610, 611, 741 and 815 in Saratoga County. The bonds will bear the date of Nov. 1 and be of the denomination of $1,000 each or multiple thereof, to an amount of $50,000, with interest at the rate of 5% a year, payable at the office of the Treasurer of Saratoga County, on all sums unpaid, semi-annually, on the first day of November and the first day of May in each and every year hereafter until paid.

SYRACUSE, N. Y.—The Board of Contract and Supply recently awarded the contract for paving Harrison St., from State St. to Almond St., with sheet asphalt to the CENTRAL CITY PAVING CO., of Syracuse, at $11,811.

•NORTH TARRYTOWN, N. Y.—Bids will be received until 10 a. m., Oct. 15, by Edward F. Hennessey, Town Clk., by the permanent improvement of highways, known as Columbus Ave. and Commerce Ave. in the Town of Mount Pleasant, Westchester County. E. J. Wulff is County Engr.

•FREEHOLD, N. J.—Bids are asked by the Board of Chosen Freeholders of Monmouth County, Court House, Freehold, until 11 a. m., Oct. 12, for a gravel road in Monmouth County, to be known as the Adelphia and Lakewood Road. George W. Patterson, Jr., is Clk. of Bd. and Peter Forman is Engr.-in-charge.

•NEW BRUNSWICK, N. J.—The following bids were received on Sept. 12 by the Board of Chosen Freeholders of the County of Middlesex, Court House, New Brunswick, for the construction of a gravel road: THOMAS & WELSH, of South Amboy, $8,150, awarded contract; Quinlan & Fallon of South Amboy, $10,737; Collins & Gundrum, 87 Henry St., South Amboy, $10,345. Asher W. Bissett is Clk. of Bd.

•NEW BRUNSWICK, N. J.—Bids were received by the Board of Chosen Freeholders of the County of Middlesex on Sept. 6 for the construction of a stone road, according to plans and specifications on file in the office of the County Collector, 40 Paterson St., New Brunswick. The road to be improved is designated as follows: Beginning at Kingston and Monmouth Junction Road and extending to New Brunswick and Trenton Turnpike, a distance of 2.56 miles. Bermudez asphalt will be used. The H. N. SCOTT CONTRACTING CO., of Cranbury, N. J., was awarded the contract on Sept. 12 at $22,000. Thomas H. Haggerty is County Collector and A. W. Bissett is Clk. of Bd.

NEWARK, N. J.—The contract for paving Treat Pl. with asphalt paving block, from William St. to Branford Pl., was awarded by the Board of Street and Water Commissioners to the HASTINGS PAVEMENT CO., 25 Broad St., New York, at $5,586.

ROSELLE PARK, N. J.—Bids will be received by the Mayor and Council of the Boro. of Roselle Park until 8 p. m., Sept. 30, at the Borough Hall, for the construction of macadam roadway on Union road, from Westfield Ave. to Grant Ave., and on Grant Ave., from Union Road to Walnut St. A. M. Woodruff is Boro. Clk. and J. Wallace Higgins, 405 Chestnut St., Roselle Park, and 347 Fifth Ave., New York, is Boro. Engr.

HARRISBURG, PA.—The following bids were received on Sept. 16, by the State Highway Department, for the construction of Section 7, on the National Road in Fayette County, including various materials (each bidder's lowest bid given): Edwards Bros. & Co., Inc., Yardley, Pa., $20,788; Reitsch Bros. & Co., Washington, Pa., $22,777; Read & Patton, Curwensville, Pa., $16,615; Thomas Meehan & Sons, Mount Airy, Pa., $17,447; Neelen & Daly, 1220 Irwin Ave., Pittsburg, $18,500; John F. Howley & Co., 237 Fourth Ave., Pittsburg, $17,282.

Also for the construction of the National Road in Brownsville Boro., Fayette County: Hastings & Piper, Charleroi, $8,168; Crossen Construction Co., Brownsville, Pa., $8,327; W. C. McCormick & Co., Uniontown, $5,772; Thomas Meehan & Sons, Mount Airy, $7,127.

Also for the construction of part of Section 8, of National Road, in Somerset County: Edwards Bros. & Co., Yardley, $11,394; Reitsch Bros., Washington, Pa., $12,477; Read & Patton, Curwensville, $9,344; Thomas Meehan & Sons, Mount Airy, $11,100; Neelen & Daly, Pittsburg, $7,889; J. C. McHadden, 326 Fourth Ave., Pittsburg, $10,268; John F. Howley & Co., Pittsburg, $9,808.

PITTSBURG, PA.—Bids will be received until noon, Oct. 10, by R. J. Cunningham, Controller of Allegheny County, for the permanent improvement of the following roads: Monongahela River Road, extension No. 1; Brighton Road and Butler Road. S. D. Foster, Courthouse, Pittsburg, is Road Engr.

SCRANTON, PA.—The contracts for paving Luzerne St., Adler St., Taylor Ave. and Gibson St. were awarded recently to the M'DONALD CONSTRUCTION CO. On the other contracts awarded it, the McDonald Co. was low bidder, its bids being as follows: Alder St., $4,832; Gibson St., $4,181, and Taylor Ave., $3,418. Work will not be started on the Luzerne job until spring, it is announced at City Hall.

ROARING SPRING, PA.—The Borough Council of Roaring Spring has awarded the contract for paving to the WILSON CONSTRUCTION CO. of Altoona. The contract covers about two and one-half blocks, commencing at East Main St. to Girard Ave. It is estimated that the contract will involve an expenditure of between $7,000 and $8,000. The work will be started at once, it is stated.

ST. CLAIR, PA.—The contract for paving Eleanor St. from Arlington Ave. to the south line of Charles St. has been awarded to OTT BROS., 414 Washington Ave., Pittsburg, by the Boro. Council.

The same contractor received a contract from Mount Oliver Boro. for the paving of Harvey St., from Griffin Ave. to Carbon St.

HARRISBURG, PA.—The following bids were received on Sept. 19 by the State Highway Department for paving the following streets:

Bell Al., from Rhoads to Fulton, 150 sq. yds., paving, no curbing—Barber Asphalt Paving Co. for Trinidad Lake sheet asphalt, $1.53 per sq. yd.; Central Construction & Supply Co., for California or Pioneer sheet asphalt, $1.97 per sq. yd.; Warner-Quinlan Paving Co., Trinidad sheet asphalt, $1.77 per sq. yd.; Clinton St., Front to Seventh, 3,150 sq. yds., 4,800 lin. ft., curbing—Barber, $1.49; Central, $1.51; Warner, $1.70. Cwoden, Verbeke to Hamilton, 2,200 sq. yds., 3,100 lin. ft., curbing—Barber, $1.50; Central, $1.50; Warner, $1.69. Dauphin, Second to Sixth, 2,460 sq. yds., 3,600 lin. ft.—Barber, $1.49; Central, $1.50; Warner, $1.69. Delaware, Front to Seventh, 3,580 sq. yds., 5,240 lin. ft.—Barber, $1.46; Central, $1.48; Warner, $1.69. Emerald, Fifth to Jefferson, 2,700 sq. yds., 1,970 lin. ft.—Barber, $1.48; Central, $1.44; Warner, $1.69. Front, Kelker to Maclay, 5,960 sq. yds., 3,500 lin. ft.—Barber, $1.46; Central, $1.70; Warner, $1.69. Fulton, Reilly to Maclay, 3,600 sq. yds., 5,120 lin. ft.—Barber, $1.49; Central, $1.51; Warner, $1.69. Granite, Second to Fifth, 2,000 sq. yds., 2,940 lin. ft.—Barber, $1.47; Central, $1.50; Warner, $1.69. Granite, Sixth to Seventh, 560 sq. yds., 326 lin. ft.—Barber, $1.50; Central, $1.50; Warner, $1.84. Jefferson, Maclay to Seneca, 5,010 sq. yds., 3,450 lin. ft.—Barber, $1.48; Central, $1.44; Warner, $1.69. Kelker, Front to Seventh, 7,500 sq. yds., 5,300 lin. ft.—Barber, $1.46; Central, $1.45; Warner, $1.68. Kelker Al., Fulton to Fifth, 233 sq. yds., no curbing—Barber, 1.48; Central, $1.97; Warner, $1.90. Logan, Reilly to Delaware, 2,780 sq. yds., 2,900 lin. ft.—Barber, $1.46; Central, $1.49; Warner, $1.69. Logan, Delaware to Peffer, 510 sq. yds., 420 lin. ft.—Barber, $1.46; Central, $1.50; Warner, $1.99. Logan, Peffer to Geiger, 530 sq. yds., 456 lin. ft.—Barber, $1.50; Central, $1.49; Warner, $1.99. Logan, Geiger to Maclay, 580 sq. yds., 520 lin. ft.—Barber, $1.56; Central, $1.49; Warner, $1.99. Muench, Front to Seventh, 7,800 sq. yds., 5,500 lin. ft.—Barber, $1.49; Central, $1.42; Warner, $1.68. Mifflin, Reilly to Maclay, 3,850 sq. yds., 5,475 lin. ft.—Barber, $1.52; Central, $1.51; Warner, $1.68. Minnie Al., Moltke to Wallace, 88 sq. yds., 200 lin. ft.—Barber, $1.55; Central, $1.85; Warner, $1.99. Myers Al., Delaware to Maclay, 540 sq. yds., 1,160 lin. ft.—Barber, $1.55; Central, $1.75; Warner, $1.99. Walker Al., Delaware to Maclay, 590 sq. yds., 1,320 lin. ft.—Barber, $1.53; Central, $1.75; Warner, $1.99. Penn, Reilly to Maclay, 5,475 sq. yds., 5,660 lin. ft.—Barber, $1.46; Central, $1.49; Warner, $1.68. Reilly, Sixth to Seventh, 2,060 sq. yds., 1,300 lin. ft.—Barber, $1.50; Central, $1.55; Warner, $1.84. Rose Al., Delaware to Peffer, 327 sq. yds., no curbing—Barber, $1.49; Central, $1.80; Warner, $1.99.

Rhoads Al., Geiger to Maclay, 200 sq. yds., no curbing—Barber, $1.51; Central, $1.95; Warner, $1.99. Turner Al., Peffer to Maclay, 270 sq. yds., 590 lin. ft.—Barber, $1.51; Central, $1.80; Warner, $1.99. Ten-foot alley between Fourth and Fulton, from Delaware, 125 ft. south, 122 sq. yds., 250 lin. ft.—Barber, $1.50; Central, $1.85; Warner, $1.99. Ten-foot alley between Fulton and Fifth Sts., from Wallace to Current, 200 sq. yds., no curbing—Barber, $1.48; Central, $1.97; Warner, $1.99. Ten-foot alley between Fulton and Fifth Sts., from Broad St. to ten-foot alley, 88 sq. yds., no curbing—Barber, $1.49; Central, $1.97; Warner, $1.99. Ten-foot alley between Fulton and Fifth Sts., from Dauphin to Muench, 233 sq. yds., no curbing—Barber, $1.49; Central, $1.97; Warner, $1.99. Violet Al., Wood to Turner, 160 sq. yds., 220 lin. ft.—Barber, $1.49; Central, $1.85; Warner, $1.99. Wallace, Reilly to Hamilton, 2,020 sq. yds., 1,800 lin. ft.—Barber, $1.49; Central, $1.53; Warner, $1.69. Wallace, Hamilton to Maclay, 2,150 sq. yds., 3,060 lin. ft.—Barber, $1.49; Central, $1.53; Warner, $1.69. Wood, Hamilton to Maclay, 2,260 sq. yds., 3,210 lin. ft., Barber, $1.47; Central, $1.49; Warner, $1.69. Woodbine, Front to Seventh, 8,670 sq. yds., 6,500 lin. ft.—Barber, $1.46; Central, $1.42; Warner, $1.68. Yousling Al., Peffer to Maclay, 310 sq. yds., 700 lin. ft.—Barber, $1.53; Central, $1.75; Warner, $1.99. Berryhill, Cameron to 13th, 2,420 sq. yds., 2,070 lin. ft.—Barber, $1.46; Central, $1.87; Warner, $1.68. Bailey, 12th to 13th, 2,000 sq. yds., 1,400 lin. ft.—Barber, $1.50; Central, $1.50; Warner, $1.69. Crabapple, 16th to a ten-foot alley, 100 ft. north of Market, 790 sq. yds., 1,130 lin. ft.—Barber, $1.51; Central, $1.75; Warner, $1.99. Crabapple, 15th to 16th, 223 sq. yds., 320 lin. ft.—Barber, $1.51; Central, $1.75; Warner, $1.99. Christian, Sylvan Terrace to Mulberry, 990 sq. yds., 1,010 lin. ft.—Barber, $1.52; Central, $1.56; Warner, $1.77. 14th, Walnut to Market, 2,690 sq. yds., 1,390 lin. ft.—Barber, $1.48; Central, $1.50; Warner, $1.75. 14th to Zarker, 460 sq. yds., 335 lin. ft.—Barber, $1.51; Central, $1.56; Warner, $1.75. 15th, Derry to Mayflower, 1,450 sq. yds., 1,000 lin. ft.—Barber, $1.49; Central, $1.50; Warner, $1.75; Howard, 13th to 14th, 2,275 sq. yds., 1,700 lin. ft.—Barber, $1.48; Central, $1.50; Warner, $1.69. Haehlen, Crescent to 13th, 675 sq. yds., 1,160 lin. ft.—Barber, $1.54; Central, $1.75; Warner, $1.99. Mary, Front to River, 287 sq. yds., 420 lin. ft.—Barber, $1.49; Central, $1.75; Warner, $1.99. North, 13th to 15th, 2,000 sq. yds., 1,520 lin. ft.—Barber, $1.48; Central, $1.50; Warner, $1.70. North, 17th to 18th, 1,028 sq. yds., 740 lin. ft.—Barber, $1.48; Central, $1.87; Warner, $1.74. Regina, 18th to White Hall, 2,850 sq. yds., 1,230 lin. ft.—Barber, $1.48; Central, $1.87; Warner, $1.74. Reservoir, Regina to White Hall, 750 sq. yds., 520 lin. ft.—Barber, $1.52; Central, $1.97; Warner, $1.75. 16th, Walnut to State, 1,480 sq. yds., 830 lin. ft.—Barber, $1.49; Central, $1.50; Warner, $1.69. Twelfth, Bailey to Walnut, 1,200 sq. yds., 825 lin. ft.—Barber, $1.49; Central, $1.55; Warner, $1.70. Ten-foot alleq, 100 ft. north of Market, from 15th to 16th, 177 sq. yds., no curbing—Barber, $1.47; Central, $1.97; Warner, $1.99. Ten-foot alley, 100 ft. west of 15th, from Crabapple to south end, 122 sq. yds., no curbing—Barber, $1.48; Central, $1.97; Warner, $1.99; Zarker, 15th to 16th, 355 sq. yds., 320 lin. ft.—Barber, $1.51; Central, $1.56; Warner, $1.99. River, Vine to Paxton, 400 sq. yds., 580 lin. ft.—Barber, $1.47; Central, $1.75; Warner, $1.99. W. W. Caldwell is Comr.

NORFOLK, VA.—The Permanent Road Improvement Commission of Norfolk County on Sept. 19, awarded to DALBY & NOTTINGHAM, of Norfolk, the contract for the construction of three miles of macadam roadway on the Cottage Toll Road from Norfolk to Ocean View, at $18,110.

•WILMINGTON, N. C.—At a meeting of the Commissioners of Streets of the City of Wilmington, held on Sept. 23, it was decided to defer paving streets in Wilmington until the sewers have been laid. Proposals will, therefore, not be considered on Oct. 15, as per advertisement in former issues of this paper. Specifications, however, for paving to be done in Wilmington at some future date will be sent on request. Louis S. Belden is Chm.

ELBERTON, GA.—Bids will be received about Oct. 10, by W. F. Jones, City Clerk, for street improvements to cost approximately $25,000.

•JACKSON, MISS.—Bids will be received by the Mayor and Board of Aldermen of Jackson at the City Hall, until 3.30 p. m., Oct. 4, for the construction of about 25,000 sq. yds. of street paving. B. H. Klyce is City Engr., and J. N. McLeod is Street Comr.

PADUCAH, KY.—The Board of Public Works has awarded contract for sidewalks and improvement of streets in Mechanicsburg and on Trimble St. to G. W. KATTAJOHN, of Paducah, at $30,088.

LEXINGTON, KY.—The Board of Public Works on Sept. 12 awarded contract for the construction of concrete sidewalks, curbing and guttering on South Broadway from Main St. to Virginia Ave. to C. H. DAUGHERTY, the lowest bidder, at 14½ cts. per sq. ft. for sidewalk, 45 cts. for curbing, and 55 cts. for curbing and guttering.

LOUISVILLE, KY.—The Board of Public Works has awarded sidewalk contracts as follows: To H. G. GOSNELL & CO., one piece; G. W. YOUNG & CO., thirteen pieces, and the AMERICAN CONCRETE CONSTRUCTION CO., four pieces. The average cost per square yard was 97 cts. Total cost of work, $9,200.

AKRON, OHIO.—Bids were opened in the office of the County Commissioners for the improvement of the South Main St. Road, Summit County, on Sept. 21, as follows: W. W. Kelley, Cleveland, $26,377; E. McSHAFFREY & SON, Akron, $22,310 (contract awarded); Amsler & Co., Franklin, Pa., $22,840; Freshwater Bros. & Co., Cleveland, $23,245; Miller & Markley, Akron, $22,590. The improvement is under the supervision of the State Highway Department.

CANTON, OHIO.—The City Council has adopted resolutions declaring it necessary to improve South Rex St. from Tuscarawas St. to the Pennsylvania R. R., East Eighth St. from Cherry St. to Young St. and Williams St. from McKinley Ave. to Walnut St. with vitrified paving block.

COLUMBUS, OHIO.—Contract for the construction of sidewalks in Linden Heights has been awarded to AARON BEST of Lorain, Ohio, at 13¾ cts. per sq. ft. About 45,000 lin. ft. of 4-ft. walk and 2,100 ft. of 5-ft walk will be laid.

COLUMBUS, OHIO.—Contract has been awarded by the city to the ANDREWS ASPHALT PAVING CO. of Hamilton, Ohio, for repairing High St., north of Fifth Ave., with sheet asphalt, at $70,929.

DAYTON, OHIO.—David Beard submitted low bids for five paving contracts on Sept. 9 and was awarded the work by the city. The bids were as follows: St. Paul Ave., $11,716; Wyoming St., $3,697; Burns Ave., $9,035; Logan St., $2,476; Sixth St., $3,060.

SPRINGFIELD, OHIO.—The Board of Control on Sept. 13 awarded contract to M. J. HANNON for paving West Main St. with 20th Century brick at $64,735. Dressed sandstone curbing and grout filler will be used.

MARIETTA, OHIO.—Bids were opened at the office of the County Commissioners on Sept. 20 for the improvement of the Waterford Road in Washington County, under the provisions of the State Highway Act. FRANK BECKWITH of Marietta, $10,893, secured contract.

SANDUSKY, OHIO.—Bids were opened on Sept. 23 at the office of the County Commissioners for the improvement of the Port Clinton Road as follows: CALLAGHAN & PARKINSON, Bellvue, for 2 course waterbound limestone macadam, $14,000; for bituminous macadam on bottom course of limestone, $14,064 (awarded contract); S. M. Fronizier, Fremont, $14,089, and $14,089.

SPRINGFIELD, OHIO.—The Board of Control has awarded contract to EDWARD RYAN of Springfield, for paving East High St. from the bridge to Greenmont Ave., and College Ave. from Limestone St. to Wittenburg Ave.

TOLEDO, OHIO.—Bids will be received by the Director of Public Service until noon, Oct. 3, for furnishing the necessary labor and material for the improvement of the alley northeast of Jefferson Ave. from the paving in Nineteenth St. to the paving in Twentieth St., by grading and paving the full width thereof with vitrified paving blocks, laid on a foundation of concrete, or broken stone, to the established grade, together with the necessary grading, curbing, headers, retaining walls, drainage, etc. Fred Shane is Secy.

WAPAKENETA, OHIO.—Bids were received by the City Clerk on Sept. 16, for the necessary labor and materials for paving Auglaize St. from the Cincinnati, Hamilton & Dayton Ry. tracks to Main St., 2,620 sq. yds. of brick. Contract, we are advised, has been awarded to T. J. MULLIGAN of Lima, Ohio,. Estimated cost, $11,000. Fred A. Klipfel is City Clk.

INDIANAPOLIS, IND.—Contract has been awarded by the city to the HOOSIER CONSTRUCTION CO. for paving Central Ave. from Tenth to 19th Sts. with asphalt. Contract for grading and gravelling East Michigan St. from Rural St. to Emerson Ave. has been let to J. HARRY ROBERTS.

VINCENNES, IND.—The Commissioners of Knox County will receive bids until Oct. 13 for the construction of gravel roads Nos. 1 and 2, of the Jackson Township gravel road system; also for roads Nos. 1 and 2 of the California Township system. Lee M. Ransbottom is Audr.

CRAWFORDSVILLE, IND.—Bids will be received until 10 a. m., Oct. 10, for paving Marshall and Morgan Sts. with brick, bitulithic, cedar blocks or asphalt, with concrete curb. Fred B. Robinson is Clk.

INDIANAPOLIS, IND.—The Board of Public Works has adopted resolutions for the paving of portions of Pennsylvania, 40th and 44th Sts. with asphalt, and also a number of local sewers. Bids will be received after Oct. 12.

PERU, IND.—The Commissioners of Miami County have let contracts for the construction of seven gravel roads, as follows: Two to J. F. HUNT, Amboy, Ind., at $3,689 and $8,574, respectively; one to PECK & TABER, Peru, Ind., at $6,852; two to J. M. GOOD, Frankfort, Ind., at $3,218 and $5,685, and two to J. M. LITTLE, Indianapolis, at $4,975 and $5,997.

WABASH, IND.—Contracts for the construction of two gravel roads have been awarded, one to FRANK REED, North Manchester, at $7,893, and one to J. M. LITTLE, Indianapolis, at $12,497.

GROSSE POINTE, MICH.—See item under Miscellaneous Contracts.

ELGIN, ILL.—Contract has been awarded by the city to the McCARTHY IMPROVEMENT CO. of Davenport, Iowa, for paving here, at about $52,000.

MOLINE, ILL.—The GUST ED. CONSTRUCTION CO. submitted the only bid and was awarded contract on Sept. 8 for laying concrete sidewalk by the Board of Local Improvements at $8,024. The contract calls for 12,468.6 lin. ft. of walk five feet wide and 2,650.7 lin. ft. of walk four feet wide—approximately 70 blocks.

STERLING, ILL.—Contract for paving Wallace St. has been awarded to ROARKE & RIDGE at $8,815, and for paving two alleys to FITZGERALD & McCARTY.

***SIDELL, ILL.—Bids will be received until 1 p. m., Oct. 3, by the Board of Local Improvements of the Village of Sidell for the grading, curbing and paving of Gray St., from the south line of Southwick St. to the north line of the southernmost alley, the quanities being 16,000 sq. yds. brick paving, with cement filler, 7,500 lin. ft. combined curb and gutter, 2,200 lin. ft. stone curbing, 1,000 lin. ft. marginal stone curbing, 20 inlets and 6 manholes. Estimated cost, $29,500. W. K. Cathcart is Pres. and W. E. Winn is Engr.**

COFFEYVILLE, KAN.—Contract for grading, curbing and paving Spruce St. from First to Fifth Sts.; Washita St. from Eighth to Ninth Sts., and grading and paving an alley in Osborn's Fourth Addition has been awarded to McGUIRE & STANTON by the Mayor and Commissioners.

ST. JOSEPH, MO.—The Seitz-Peterman Engineering Co., it is reported, has nearly completed preliminary surveys for a park and boulevard system to cover 13¼ sq. miles within the city and north from Prospect Hill to the water works. George E. Kessler, Landscape Arch., Fidelity Bldg., Kansas City, Mo., will prepare plans for the work.

***ORANGE, TEX.—Bids will be received by the Special Committee of the Calcasieu Parish and the Orange Commercial Club until noon, Oct. 6, for the purpose of building a public highway from a point in Louisiana, opposite Orange, eastward across a shallow marsh, 3.46 miles in length. S. R. Shepherd is Sec'y of Commercial Club.**

OKLAHOMA CITY, OKLA.—The following bids were received on Sept. 19 by M. C. Burke, City Engr., for 16.75 miles of asphalt pavement: (a) Estimate; (b) Cleveland Trinidad Paving Co., 420 Lakeside Ave., N. E., Cleveland, Ohio; (c) the Western Paving Co.; (d) F. P. McCormick; (e) Shelby-Downard Co., Ardmore, Okla.: With sheet asphalt—(a) Eleventh St., from Olie Ave. to Western Ave., $2,349; Central Ave., from Tenth St. to Sixth St., $9,675; portions of Poplar Ave., Hudson Ave. and Avenue B, $46,056; portions of Seventh St, $10,344; portions of Linwood Boulevard, $76,781; Linwood Boulevard, from 10th St. to 16th St., $133,889; portions of Linwood Boulevard, 16th, 17th, 18th, 20th, 21st Sts., Drexel Boulevard, Land Ave., Independence Ave., $162,670; Young's Boulevard, $19,574; Ninth St., $46,860; portions of Francis Ave., Shortell Ave., Deuxey Ave., $20,728; Noble Ave., $6,567; First St., $49,718; Seventh St., $6,923; Pottawatomie Ave., $37,362; portions of Robinson Ave., Avenue C, Hervey Ave. and Avenue A, $144,313; 26th St., $9,187; Lee Ave., $8,228; Central Ave., $5,335; Agnew St., $16,926; portions of 37th and 38th Sts. and Military Ave., $54,179; Walker Ave., $15,130; Main St., $34,343; portions of 24th, 25th, 26th and Broadway, $22,078; Walnut Ave., $18,109; Twelfth St., $2,753; portions of 39th St. and Putnam Heights Boulevard, $20,463; 31st St., $4,397.

(b) For portions of Francis Ave., Shortell Ave. and Deuxey Ave., $19,175; Noble Ave., $6,289; First St., $45,582; Seventh St., $6,480; Pottawatomie Ave., $34,383.

(c) Eleventh St., $2,211; Central Ave., $9,241; portions of Poplar Ave., Hudson Ave. and Avenue B, $44,847; Seventh St., $9,967; Ninth St., $44,715; Francis Ave., Shortel Ave. and Deuxey Ave., $19,627; Noble Ave., $6,337; First St., $47,998; Seventh St., $6,579; Pottawatomie Ave., $35,583; portions of Robinson Ave., Avenue C, Harvey Ave. and Avenue A, $142,873; 26th St., $8,883; Lee Ave., $7,987; Central Ave., $5,002; Agnew St., $16,926; portions of 37th and 38th Sts. and Military Ave., $52,815; Main St., $33,610; portions of 24th, 25th and 26th Sts. and Broadway, $21,948; Walnut Ave., $17,268; Twelfth St., $2,642; portions of 39th St. and Putnam Heights Boulevard, $20,053; 31st St., $4,269.

(d) Eleventh St., $2,326; Central Ave.; $9,612; Seventh St., $10,241; Linwood Boulevard, from Western Ave. to Tenth St., $76,252; Francis Ave., Shortel and Deuxey Ave., $20,515; Noble Ave., $6,520; First St., $49,288; Seventh St., $6,855; Pottawatomie Ave., $37,000; 26th St., $9,093; Lee Ave., $8,145; Central Ave., $5,281; Agnew St., $16,767; Walnut Ave., $17,933; Twelfth St., $2,724.

With rock asphalt (Ardmore)—(e) Eleventh St., $2,180; Central Ave., $9,132; Seventh St., $9,585; portions of Francis Ave., Shortel Ave. and Deuxey Ave., $19,152; Noble Ave., $6,175; First St., $46,131; Seventh St., $6,425; Lee Ave., $7,616; Central Ave., $4,938; Walnut Ave., $16,657; Twelfth St., $2,544.

SPOKANE, WASH.—The Board of Public Works on Sept. 13 awarded contracts for street improvements, bids on which were opened on Sept. 12. The various improvements and successful bidders follow, the bid accepted being the lowest in each case: Grading, curbing, paving and sidewalking Boone Ave. from Nelson to Helena Sts., estimate, $20,300, to L. B. HAMBLEY, $18,000; paving and sidewalking Fourth Ave. from Howard to Monroe Sts., granitoid concrete, estimate, $21,500, to JOHN FIFE, $22,000, and $1,000 to maintain five years; First Ward subtrunk sewer, district No. 17, estimate, $24,915, to JAMES M. BROAD, $26,665; regrading and paving Third Ave. from Sherman to Hilliard Sts., with asphalt, estimate, $19,700, to INDEPENDENT ASPHALT CO., $19,250, and $605 to maintain five years; grading, curbing, paving and sidewalking Wabash Ave. from Washington to Cedar Sts., estimate, $13,700, to FOSTER & HINDLE, $12,498; grading, curbing, paving and sidewalking Fairview Ave. from Standard to Lidgerwood Sts., estimate, $5,250, to C. M. PAYNE, $4,350; grading, curbing, paving and sidewalking Lamont St. from 29th to 31st Aves, estimate, $2,150, to J. B. MITCHELL, $2,137; grading, curbing, paving and sidewalking Lidgerwood St. from Montgomery Ave. to Mission Ave., estimate, $8,000, to L. B. HADLEY, $8,000; grading, curbing, paving and sidewalking Walton Ave. from Addison to Division Sts., estimate, $5,800, to FOSTER & HINDLE, $5,419.

SEATTLE, WASH.—R. H. Thomson, City Engr., has reported to the City Council the estimated cost of the following street improvements: McGilvray Boulevard and other streets, wooden curbs and gutters, grading and concrete walks, $21,500; Erie Ave., grading, curbing and concrete walks, $1,650; East First St., concrete walks, $2,300; Twelfth Ave., N. W., and other streets, water mains, $10,300; 25h Ave., N. E., and other streets, water mains, $3,050; East Alder St., concrete walks, $4,450.

Bids will be received until Sept. 30 by the Board of Public Works, C. B. Bagley, Sec'y, for the following improvements: University St. and other streets, paving with brick, constructing sewers and water mains, cost $28,000; alley in Block 19, C. H. Addition, Division No. 2, paving with asphalt, $4,450; East 50th St. and other streets, concrete walks, etc., $9,900; 16th Ave., N. E., and other streets, concrete walks, etc., $12,200; East 70th St. and other streets, concree walks, $5,000; Fifth Ave., South, and other streets, water mains, $18,600; West 57th St. and other streets, sewers, $9,000; Republican St. and other streets, by planking, etc., $6,450.

LOS ANGELES, CAL.—The following contracts have been awarded by the Board of Public Works: For improving 35th St., between Central Ave. and Hooper Ave., to W. E. NICHOLS, at $3,567; Lake Shore Ave., from Berkeley St. to Effie, St., to H. O. RICHWINE, at $3,293; 38th St., from Budlong Ave. to Wisconsin Ave., to W. E. NICHOLS, at $2,458.

OGDEN, UTAH.—Contract has been awarded by the city to P. J. MORAN, of Salt Lake City, Utah, for paving Hudson Ave. and Washington Ave., between 22d St. and Ogden River bridge, at about $47,000.

OTTAWA, ONT.—The Ottawa & Gloucester Road Co. has awarded contract to T. S. KIRBY to macadamize Metcalfe Road.

VICTORIA, B. C.—The WORSWICK PAVING CO. has been awarded contract for paving Fernwood Road at $14,978; Rockland Ave. at $14,895, and Richardson St. at $9,770. The PACIFIC CONSTRUCTION CO. has secured contract for a standard asphalt for Fort St. at $9,702. Specifications called for a standard asphalt pavement consisting of a 5-in. concrete base, an 8-in. binder and a 2-in. wearing surface.

MANUFACTURING PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

FALL RIVER, MASS.—The management of the Charlton Mills has awarded the contract for the engine for the plant to the PROVIDENCE ENGINEERING CO., of Providence, R. I., which will install an engine of the Rice & Sargeant type of about 1,500 HP. In addition the plant will have a low-pressure turbine which will utilize the steam from the low-pressure cylinder of the engine and will develop electricity of between 800 and 900 HP.

PAWTUCKET, R. I.—The Seekonk Lace Co. is to erect an addition to its plant, together with twelve cottages and eight double tenements. The mill when completed will accofmodate 22 looms, the present equipment consisting of six looms. Upon its completion more than 100 hands will be employed. This company started operations early in June in a new mill building 22 × 52 ft., having an addition of 32 × 66 ft.

BUFFALO, N. Y.—The Beaver Co., William F. MacGlashan, Pres., will erect two additional buildings, each 60 × 220 ft., one story, of brick and concrete, at its manufacturing plant, Beaver Road and New York Central R. R., North Buffalo.

The Menig Sheet Metal Works, Eugene G. Menig, Pres., 119 Ash St., has completed plans for a 2-story brick addition, 36 × 150 ft., to its plant on Ash St., near Genesee St., which it will build this fall.

JAMESTOWN, N. Y.—The 4-story factory building, No. 2, of the Salisbury Wheel Co., which was destroyed by fire with valuable machinery for making automobile axles, on Sept. 21, with a loss of $90,000, will be replaced in the spring with a fireproof factory structure adjoining the company's Factory No. 1.

POUGHKEEPSIE, N. Y.—We are officially advised that a 3-story fireproof factory, 50 × 250 ft., will be erected on Cottage St. by the Pioneer Pearl Button Co., at a cost of $50,000. Bids will be received at once. P. M. Lloyd, 39 Market St., Poughkeepsie, is Arch.

ATLANTIC CITY, N. J.—W. W. LINDSAY & CO., Harrison Block, Philadelphia, have the contract for a 1-story chemical laboratory, 23 × 32 ft., to be built in Atlantic City for the United Gas Improvement Co., to cost $20,000.

BLOOMFIELD, N. J.—Plans were filed with George M. Cadmus, Bldg., Inspector, in Bloomfield, by the Simms Magneto Co., for a 2-story factory building to be of concrete and to cost $90,000. It will be erected at Arlington Ave. and the Lackawanna R. R., and will be 231 × 177 ft., half of which will be in Bloomfield and the other half in East Orange. The company has a force at work arranging for the layout, and active operations will be in progress immediately.

The Scott & Bowne Co., manufacturers of emulsion in the Watsessing District, are to make alterations to the plant in the erection of a concrete boiler and engine house on their Orange St. property, to cost $8,500.

CARTERET, N. J.—The Orford Copper Co., 43 Exchange Pl., New York, a subsidiary of the International Nickel Co., has bought the E. S. Savage property on the Staten Island Sound at Carteret, N. J. It comprises about 110 acres. A number of factories will be erected on the property.

NEW BRUNSWICK, N. J.—Joseph Dhavernas has plans for various buildings to be erected by the American Chrome Co., which recently incorporated. The company will begin at once the construction of equipment of a plant for the manufacture of chrome steel.

PERTH AMBOY, N. J.—Lockwood, Greene & Co., Archs. and Engrs., 93 Federal St., Boston, Mass., have prepared plans for a reinforced-concrete testing laboratory and shooting gallery for the U. S. Cartridge Co., Perth Amboy, N. J.

PASSAIC, N. J.—JOHN J. O'LEARY CO., of this city, has been awarded the contract for the erection of the Barbour Flax Mills in Lakeview. Cost, $150,000.

CARBONDALE, PA.—We are officially advised that J. G. WHITE & CO., Inc., Engrs. and contractors, 43 Exchange Pl., New York, have been awarded a contract by the New York, Ontario & Western R. R. Co. for the erection of railroad shops at the Mayfield yards, Mayfield, Pa., near Carbondale. The work to be carried out consists of the erection of a 10-stall roundhouse with a 75-ft. turntable, machine shop, carpenter shop, with complete power plant, store-house, office building, oil building, sand storage, drier and loading house, and a complete coaling station with a storage capacity of approximately 1,000 tons. The buildings will be of the usual type of brick and steel construction. The estimated cost is approximately $150,000.

SOUTH BETHLEHEM, PA.—The Casimir Von Philo Printing Press Co. will build in South Bethlehem a brick, steel and concrete building, two stories high, and 300 × 50 ft.

NORRISTOWN, PA.—Bids will be received by the Committee of the Board of Trustees of the State Hospital for the Insane at Norristown, until Oct. 5, for laundry machinery.

CHESTER, PA.—The Robert E. Clark Co., of Chester, will enlarge its plant to twice the present capacity. What is especially contemplated is a machine for the manufacture of thread for the domestic trade, and in order to secure the needed improvement the firm will be required to increase its capital.

DARBY, PA.—Plans have been completed by Charles M. Wells, Arch., 5614 Germantown Ave., Philadelphia, for a factory to be erected in Darby for John B. Simpson, proprietor of the College Clothing Co., now located at 914 Walnut St., Philadelphia. It will be 100 × 35 ft. Cost, $25,000.

GREENVILLE, PA.—The Grove City Wire Novelty Works, recently organized, will erect a plant here. C. A. Eakin is Pres.

YORK, PA.—Ernest and Herman Levy, manufacturers of silk ribbon, have arranged with the York Chamber of Commerce to establish a factory which will give employment to 400 operators.

WILKES-BARRE, PA.—The Eagle Iron Works will construct a plant here. The company has secured a site near the Lackawanna R. R. tracks. Joseph Geiser is Mgr.

BALTIMORE, MD.—A brick and steel machine shop will be erected by Bartlett, Hayward & Co. at Scott and McHenry Sts. The structure will be two stories high with reinforced concrete foundation and slate roof. It will be constructed with wrought steel girders and structural work, while the exterior will be of pressed brick. The company's engineering department is preparing the plans for the proposed building. When the drawings are completed local contractors will be asked to bid for its erection.

BALTIMORE, MD.—A. W. Thompson, Ch. Engr., Baltimore & Ohio R. R. Co., Baltimore, Md., is preparing plans and specifications for improvements and enlargement to Mount Clare shops at Pratt and Poppelton Sts. Another building constructed of brick and stone with concrete foundations will be erected adjoining present plant. The iron molding department and construction works will be changed and new machinery installed.

MARTINSBURG, W. VA.—The plant for the National Limestone Co., two miles south of town, has been staked off by George W. VanMetre and G. P. Grimsley, Gen. Mgr. The firm will develop 1,034 acres of limestone and when the factory has been completed will have a daily output of 8,000 tons of lime. LADD & BAKER, Mutual Life Bldg., Philadelphia, Pa., are Constr. Engrs.; R. L. Ahles, Pres.; J. S. McAnulty, Vice-Pres.; S. T. McCormack, Treas.

CHAPEL HILL, N C.—The T. F. Lloyd Mfg. Co. has been organized with Thomas F. Lloyd, Pres.; Louis Lloyd, Vice-Pres.; W. S. Robinson, Secy., and J. W. Pritchard, Treas. This company has plans for a 10,000-spindle yarn mill. Its capital stock is $200,000.

HIGH POINT, N. C.—Lockwood, Greene & Co., of 93 Federal St., Boston, have been engaged to prepare plans and specifications for the construction of the proposed plant of the Pickett Cotton Mills, a company mentioned during recent weeks as organized with a capital stock of $400,000. The CENTRAL CAROLINA CONSTRUCTION CO., Greensboro, N. C., has the contract for the buildings. These structures are designed for holding an equipment of 12,000 spindles and 300 looms, to manufacture cotton cloth. The Pickett company was organized with Robert L. Steele, of Rockingham, N. C., Pres., and F. M. Pickett, of High Point, N. C., Treas. The plant will be built at High Point. Noted last week.

CHESNEE, S. C.—The Chesnee Mills Co., of Chesnee, S. C., has awarded contract for the erection of its buildings to the FISKE-CARTER CONSTRUCTION CO., of Worcester, Mass., which is now placing materials at the mill site so that construction can begin. The company's capital stock is $400,000 and Joseph E. Sirrine, of Greenville, S. C., is the Arch.-Engr. W. E. Burnett, of Spartanburg, S. C., is Pres. and Treas., and J. N. Cudd, also of Spartanburg, is Vice-Pres. and Gen. Mgr. Among the company's directors are Robert Ream and J. B. Ryan, of New York

GREENVILLE, S. C.—F. W. Poe Mfg. Co., Greenville, S. C., will increase its capital stock from $500,000 to $1,000,000 and construct several additional buildings, installing about 10,000 spindles.

BERRY, GA.—The Berryton Mills Co., recently organized, will remodel the buildings of the old Raccoon Mills and install 5,000 spindles and some knitting machinery. A concrete dam to develop water power will be constructed, and a dynamo for lighting will be installed.

BIRMINGHAM, ALA.—The Senn Pressed Steel Hoe & Tool Co., Inc., which was recently chartered here with a capital stock of $150,000, proposes to manufacture and sell a patented pressed steel hoe which heretofore has been manufactured by Edward Senn, of Egg Harbor, N. Y. Mr. Senn is Pres. of the company; A. C. Bruce, of Birmingham, is Vice-Pres., and J. R. Peebles, Secy.-Treas. The company is to build a plant near Birmingham.

Arm[illegible] & Co. will erect a cold storage plant [illegible] to cost $100,000.

MOBILE, ALA.—The Mobile Terminal & Railway Co., John T. Cochrane, Pres., has acquired [illegible]4 acres fronting 700 ft. on Mobile Harbor and plans various improvements, including [illegible] slips, with docks on both sides, affording docking facilities of about 3,000 ft., warehouse and storage system, trackage and [illegible]. The company's capital stock is $500,000.

PICAYUNE, MISS.—The Silk Producing & Spinning Co. has been chartered with a capital stock of $100,000, to cultivate silk and build a 10-wheel mill for spinning. This is the company lately organized with Kalil Joseph as Pres. Mr. Joseph has received silk cocoons from his brother in Syria, and proposes to fully experiment with the possibilities of silk culture and spinning.

BOSSIER, LA.—The Bain Peanut Co., of Wakefield, Va., will establish a peanut cleaning plant at Bossier, La., expending $75,000 for the main building and equipment.

CANTON, OHIO.—The Canton Feed & Milling Co.'s warehouse in East Second St., near the Wheeling & Lake Erie R. R., will be turned into a grist mill, according to an announcement by C. S. Lothamer, Gen. Mgr.

CAREY, OHIO.—ALGE BROS., of Findlay, Ohio, have been awarded the contract to erect the buildings of the proposed porcelain works at Carey.

CINCINNATI, OHIO.—The Banner Grocers Baking Co. has let the contract for its proposed $100,000 plant at the northwest corner of Oak and Stanton Aves., Walnut Hills, to the EVANS-RENDIGS CO., 41 Reading Road. Cost, $17,000.

EAST LIVERPOOL, OHIO.—The Anderson Porcelain Co., which recently lost its plant in this city by fire, and which has been seeking a location in a number of West Virginia cities, has finally decided to rebuild the plant in East Liverpool. The plant, for the erection of which the contract has been let to HARVEY McHENRY, of East Liverpool, will be 100 × 200 ft. and will cost, exclusive of the machinery and equipment, approximately $30,000.

TOLEDO, OHIO.—G. A. Mueller, Breitmeyer Bldg., Detroit, Mich., is preparing plans for a bottling works, two stories and basement, 30 × 120 ft.; office, two stories and basement, 30 × 76 ft.; warehouse, two stories and basement, 40 × 120 ft., and a 3-story garage and stable, 30 × 76 ft., for the Bavarian Brewing Co., of Toledo, Ohio. Cost, $30,000.

PORTLAND, IND.—A mattress factory is to be started by David Abromson, A. Landeberg and Louis Silverstein. Mattresses of all kinds will be manufactured by the firm.

SOUTH BEND, IND.—The Oliver Chilled Plow Works, South Bend, will be further extended. The plant is being rebuilt and enlarged and fitted with new chilled grind departments and paint shops. Architects have completed plans for the two buildings. The chilled grind department will be a building 240 × 260 ft. in size, while the paint shop will have dimensions of 80 × 340 ft. The company is spending $1,000,000 in extending its factory, but the improvements will permit the increase of the working force to 5,000 men. At present about 3,500 are employed. The company is erecting a branch factory at Hamilton, Ont. Buildings in course of construction will be completed by Nov. 15 and the plant will be placed in operation by Jan. 1, 1911. The branch factory is costing about $1,500,000 to establish.

WHEATLAND, IND.—FRED. FRIEDLINE, 253 La Salle St., Chicago, has the general contract for erecting a 30,000 bushel grain elevator at Wheatland, Ind., for the Farmers' Union Co-OperativeElevator & Live Stock Association. It is to be of crib construction with corrugated iron siding and gasoline power.

DETROIT, MICH.—The Sample, Smith & Hahn Lumber Co., 1182 Wabash Ave., Detroit, are having plans prepared for a 1-story factory building. Walter Sample is Pres. The company will take bids about Nov. 1.

The Arctic Ice Cream Co., A. F. Stephens, Pres., 435 Sixth Ave., has purchased a site and will build an ice cream factory soon.

G. A. Mueller, Breitmeyer Bldg., has prepared plans for a brew house, three stories and basement, 55 × 150 ft., for the Detroit Brewing Co. The building is to be of steel construction, reinforced concrete, asphalt floors. Cost, $25,000.

LANSING, MICH.—At the recent annual meeting of the Atlas Drop Forge Co., Lansing, Mich., the following officers and directors were elected: Pres. R. E. Olds; Vice-Pres., R. H. Scott; Secy. and Treas., S. H. Carpenter; E. F. Peer, J. H. Mores, Harry Haze and M. P. Potter. A machine shop, 40 × 90 ft., will be added soon. The present office rooms will be devoted to factory purposes and a new office building will be located on Cedar St.

CHICAGO, ILL.—William F. Pagels, Arch., 34 Clark St., is preparing plans for a 3-story factory, 10[illegible] × 149 ft., to cost $55,000 at Albany and Sacramento Aves. It is to be of brick and mill construction, with steam heating, electric freight elevator, fireproof windows and vault doors.

A. S. Alschuler, 39 Jackson Boulevard, is preparing plans for a 5-story factory, 106 × 125 ft., at Jackson Boulevard and Peoria St., for M. L. [illegible]erndorf, to be of brick and mill construction with fireproof windows, electric elevators, automatic sprinkler system, steam heating, vault and fire doors.

A. T. Hawk, care of the C., R. I. & P. R. R., has awarded the general contract to T. J. LEAKE & CO. for roundhouse at Burr Oak, Chicago, to be of brick construction and cost $20,000.

CHICAGO, ILL.—F. E. Davidson, Arch., Monadnock Block, and Patterson & Davidson, Engrs., 1448 Monadnock Block, are preparing plans for a 5-story building, 75 × 175 ft., at Laflin St. and Monroe Ave., for Walter E. Olson, to be of standard brick and mill construction, with electric elevators, fireproof windows and sprinkler system.

JACOB SWANSON has the general contract for a 1-story factory, 32 × 70 ft., at 78th St. and Woodlawn Ave., for the Chicago Pipe Wrench Co., to be of brick construction, with vault doors and have metal ceilings.

A. S. Alshuler, Arch., 39 Jackson Boulevard, is receiving estimates for electrical work on a 3-story building, 80 × 160 ft., to cost $65,000, at 22d St., for the Southern Cotton Oil Co., 217 La Salle St.

ASHLAND, WIS.—The Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. will razé its roundhouse in this city and erect a new one with 24 stalls. T. A. Foque, Minneapolis, is Gen. Mech. Supt.

BELOIT, WIS.—Plans are being prepared by the Beloit Iron Works for an addition to be built to the foundry. The new section will be 60 × 160 ft.

MILWAUKEE.—Albert Trostel & Sons, tanners, have secured a permit for the erection of a brick and stone, one-story, building, 118 × 148 ft., to be built on North Water St. Cost, $25,000. This company will also rebuild one of its structures reently damaged by fire. Cost, $15,000.

WINONA, WIS.—At a recent meeting of the Directors of the Oxford Linen Mattress Co., held at the Oxford Linen Mills, at Spencer, Mass., it was decided to construct mills at Winona, Wis. They will be six in number and of reinforced concrete. Preliminary plans for the buildings were submitted and approved. It is stated that the land purchased amounts to ten acres.

LA CROSSE, WIS.—The La Crosse Plow Co. has purchased a lot in this city, and will erect an addition to its plant. Building operations will not be commenced until 1911.

RACINE, WIS.—Preparations are being made for razing the building owned by Armour & Co., near the Main St. bridge. It is planned to erect a 3-story brick and steel cold-storage plant, costing $75,000 in its place.

GILMORE CITY, IOWA.—The Fort Dodge Portland Cement Co. will erect a plant here, it is stated, to cost $2,000,000. Dr. F. D. Brandenburg is Pres.

DULUTH, MINN.—The Imperial Iron Works which recently asked the Council to have the city vacate 42d Ave., West, 400 ft. south from Polk St., has plans for a foundry and other new buildings which will be erected during the coming year. Estimated cost, $30,000.

OMAHA, NEB.—Permits, amounting to $350,000, have been issued for eight buildings to be erected by the Union Pacific R. R. Co. The contract for the work has been let to GEORGE B. SWIFT & CO., of Chicago, Ill. C. E. Fuller is Supt. of Motive Power, Omaha.

CARBONDALE, TEX.—It is stated that James Harrington, of Texarkana, Ark., will erect coke ovens and a brick manufacturing plant and install additional machinery in his mining plant here, situated on a large tract of coal land owned by him.

EL PASO, TEX.—J. T. Cameron, of this city, has been granted a franchise by the City Council to erect a packing house here to cost $250,000. It is stated that the plant will be in operation within ten months. The proposed packing house will receive its supply from Mexican cattle, and the product will supply a large territory not at present covered.

It is stated by W. C. Stewart, Secy. of the Madera Lumber Mills Co., that the Pearson Co. is planning to erect a planing mill in this city. The proposed mill will dress rough lumber imported from Mexico in order to save an import duty.

FLORESVILLE, TEX.—A 15-ton ice plant is to be erected at this town by J. C. Houston, of Floresville. The plant will be in operation by next spring.

SAN BENITO, TEX.—It is planned by N. J. Hitz, of this town, and associates of Madison, Ind., to erect a vegetable canning factory here. The proposed plant will cost about $60,000.

STILLWATER, OKLA.—Oklahoma Public Service & Interurban Ry. Co., R. A. Sturgeon, Ch. Engr., will construct terminal and car barns, freight house, a 200-ft. steel bridge and power-house on its proposed line from Stillwater to Guthrie, and also from Stillwater to Sapulpa. Contracts for work along this route have been awarded to DAN SWEENEY & CO. and M. RYAN BROS CO.

SPOKANE, WASH.—Preliminary plans for a piano factory, to cost between $50,000 and $60,000, and which will be built within a year or eighteen months, are being considered by Emil Simon, of the Simon Piano House, which recently took quarters on Riverdale Ave., between Lincoln and Monroe sts.

TACOMA, WASH.—A permit has been issued to the Griffin Wheel Co. by George Trust, Bldg. Inspector, for a factory to cost $49,756. The structure is to be located on property south and west of the Griffin company's present plant, near the shops of the Northern Pacific Ry. Co. KELLY BROS. have been awarded the contract, and work will be started at once.

SEATTLE, WASH.—C. E. Brown, Vice-Pres. of the Appleton Co., has announced the following plans of the company regarding the proposed plant at Factoria: The site of Factoria is at the old Mercer Slough, which will be drained, and comprises 1,700 acres. The first building to be erected will be a stove and range factory, two stories, with concrete foundation, wood frame, asbestos plant, to be completed within 30 days. The first unit of a power plant will be erected at once, to be used later on for emergency purposes only, as a larger plant will be constructed at a future date. This building will be 40 × 100 ft., concrete foundation and wood frame. Work will be started at once on a brass goods factory to be 60 × 200 ft., wood frame, concrete foundations, and also on the constrution of a building for a machine shop, 40 × 100 ft., wood frame, oncrete foundations. A concrete building will be erected for a steel casting factory, but that size and cost has not been determined as yet. The plans of the company contemplate the erection eventually of 20 or more factories, and that there will be $300,000 spent in improvements before the first of the year.

MEDFORD, ORE.—The Medford Concrete Construction Co. has received its corporation papers, and will commence the erection of a factory at once. As soon as the building is completed the machinery necessary for the production of cement sewer pipe, drain tile, brick blocks, etc., will be on the ground for installation.

PORTLAND, ORE.—Permit for a 7-story mill-constructed building, to be erected at Third and Yamhill Sts., on the former site of the old Baker Theater, by Donald Mackay for the Powers Furniture Co., was issued recently by the Building Inspector. The building will cost $90,000. Work on the foundation already has been started.

BAKERSFIELD, CAL.—A. Faget, Engr., 354 Pine St., Los Angeles, has completed the plans for extensive alterations to the Union Ice Co.'s plant at Bakersfield. The contract has been awarded to the LINGDREN CO., of Los Angeles. The work will cost in the neighborhood of $12,000.

CUCAMONGA, CAL.—Henry Klusman has a contract for erection of the Gregory Packing Co.'s packing house. It will have concrete foundations.

PASADENA, CAL.—Plans are being prepared for a 3-story brick flour mill, to be erected on Broadway for J. G. Engelburg, an Eastern capitalist. It is to be 120 × 130 ft., of heavy mill construction. Contracts are to be awarded in October.

LOS ANGELES, CAL.—The Vertical Condenser Co. has been incorporated here for $25,000. J. L. Ziegler, F. S. Calkins and F. G. Calkins are Dirs.

T. J. & W. G. Williams, 1214 South Main St., will build a 1-story brick factory building on San Pedro St., to be used for the manufacture of noodles. It will be 53 × 130 ft., and will cost $5,000.

The Bexhill Window Casement Co. will erect a factory here for manufacturing windows and casements. The plant will cost $25,000.

The H. Rapheal Co., manufacturers of glass and its products, have purchased six acres of land at Wilhoit and East Main Sts. and the Atchison, Topeka & Santa Fe tracks, and have commenced breaking ground for erection of its plant. The first structures erected will be two warehouses of reinforced concrete. Each of these buildings will be 70 × 200 ft., and they will cost $75,000.

OROVILLE, CAL.—The Western Ice & Fruit Cooling Co. has been incorporated by the directors of the Truckee Lumber Co., who have secured a site adjacent to the tracks of the Western Pacific, Southern Pacific and Northern Electric Ry. companies. The capital stock is $25,000, with the following subscribers: A. W. Corkins, E. C. Dunbar, F. W. Giles, James L. Smith and E. D. Brererton. The company will erect a reinforced concrete building adjoining the lumber company's plant, and will use the surplus steam from the sawmill. It will also engage in a general fuel business, wholesaling wood, oil and coal. It will have cold-storage compartment for rent for fruit and foodstuff dealers, and will buy and ship fruit and vegetables for transportation East.

SAN DIEGO, CAL.—D. W. Hanis, Arch., Linken Bldg., has completed plans for a 2-story brick factory building to be erected on 16th St. for the San Diego Shoe Mfg. Co. H. A. Fuller is Pres. The building will be 50 × 140 ft., brick foundation and walls, composition roof and hollow tile partitions. The capacity of the factory will be 1,000 pairs of shoes daily.

SAN BERNARDINO, CAL.—The Parker Iron Works has been incorporated here with a capital of $100,000. The present plant will be enlarged. The company makes a specialty of ice plants and automobile trucks.

The San Bernardino Fertilizer Works will have plans drawn at once for the erection of a fertilizer factory. T. A. Blakely, 863 E St., is Mgr.

THREE RIVERS, QUE.—We are officially advised that the contract for the pulp mill of the Union Bag & Paper Co., at Cap de la Magdaleine, Three Rivers, has been awarded to FRANK G. GILBRETH, INC., 60 Broadway, New York. George F. Hardy, 309 Broadway, New York, is Engr.

HAMILTON, ONT.—We are officially advised that a plant is to be constructed by the National Fire Proofing Co., Ltd., of Canada, with the head office at Toronto, in which company the National Fire Proofing Co., Flatiron Bldg., New York, has an interest. The steel work is now being estimated, and it is expected that the construction will begin as soon as ontracts are let. Henry M. Keasbey, New York, is Vice-Pres. and Mgr. of the American company.

DAVID DICK & SON, of Welland, Ont., have been awarded the contract for the erection of additional buildings for the Oliver Plow Works Co., Hamilton, to the amount of about $45,000. See also South Bend, Ind.

The Canada Steel Co. will locate a steel mill in this city, and work in constructing it will be gone on with at once. It is stated that it will cost $400,000 and will employ about 300 hands. The directors of the company are: F. W. Baillie, Toronto, Pres.; R. M. Bertram, Toronto, Vice-Pres.; W. M. Currie, Ramilton, Managing Dir.; A. T. Malone, Toronto, and G. W. Morrow, Toronto. The mill will use old steel rails, and by a new process split them simultaneously into bedstead angles, structural angles, and other similar articles. The site, about six acres, has been secured on Sherman Ave., in the manufacturing district.

We are officially advised that the following buildings will be erected here by the Canadian Westinghouse Co., Ltd., at Hamilton: Warehouse extension, 125 × 165 ft.; detail building extension, 83 × 200 ft.; foundry extension, 113 × 200 ft.; fire hall, 24 × 42 ft. All the buildings will be three stories high, except the fire hall, which will have one story. All will be fireproof, and will cost $175,000; equipment, $28,000. They will have concrete, shale brick walls; floors and roof of reinforced concrete (Kahn system), steel girders and steel roof trusses. The work is being done by the company's forces. Two electric traveling cranes will be required. J. H. Kerr is Secy.

CHIHUAHUA, MEX.—A concession to erect a whiskey distillery on the Las Cuevas ranch, district of Galeana, has been granted by the Chihuahua State Government to E. C. Houghton and J. G. Graff, Jr. The concession exempts the plant from state and municipal taxes for ten years.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

ALBANY, N. Y.—See item under Streets and Roads.

*DREDGING.—Norfolk, Va.—Bids are asked by Lt.-Col. Mason M. Patrick, Corps Engrs., U. S. A., Norfolk, until noon, Oct. 20, for dredging in Pagan River, Va.

*TUG.—New York, N. Y.—Bids are asked by Col. S. W. Rossler, Corps Engrs., U. S. A., New York, until noon, Oct. 27, for constructing the steel screw tug Engineer, N. Y.

DIKES.—Seattle, Wash.—Bids for constructing dikes at Skagit River, Wash., will be received until noon, Oct. 6, by Capt. Arthur Williams, Corps Engrs., U. S. A., Seattle.

RETAINING WALL.—Winnemucca, Nev.—Bids will be received until Oct. 10 for the construction of 1,051 ft. of reinforced concrete retaining wall. George S. Nickerson is interested.

CABLES.—New York, N. Y.—Bids will be received by Patrick A. Whitney, Comr. of Correction, until Oct. 4, for furnishing and delivering lead covered feeder, sub-feeder and duplex armored cables.

WHARF.—New Mills, N. B.—Bids are asked by R. C. Dosrochers, Secy. Dept. Public Works, Ottawa, Ont., until 4 p. m., Oct. 3 for constructing a wharf at New Mills, Restigouche County, N. B.

REINFORCING BARS.—Los Angeles, Cal.—The UNION HARDWARE & METAL CO. has been awarded a contract for furnishing 600 40-ft. and 650 381ft. reinforcing bars at 2.55 cts. per lb., f. o. b., Los Angeles.

STONE DAM, ETC.—Cincinnati, Ohio.—Bids are asked by Maj. John C. Oakes, Corps Engrs., U. S. A., until 2 p. m., Oct. 27, for the construction of one loose stone dam and shore protection near foot of Sisters Island.

STONE, ETC.—New York, N. Y.—Bids are asked by the Park Board until 3 p. m., Oct. 6, for furnishing 100 cu. yds. of broken stone of trap rock and 300 cu. yds. screenings of trap rock for parks, Boro. of The Bronx.

RETAINING WALL.—Grafton, W. Va.—The SIMS CO. has the contract for the construction of 2,000 ft of concrete and stone retaining wall from the mouth of the Third Fork Creek, upstream for the distance mentioned.

DITCHES.—Greenwood, Miss.—Bids are asked until noon Oct. 7, by the Commissioners of Cude Drainage District of Lenore County, Court-House, Greenwood, for digging about 20 miles of open ditches. G. W. Holmes is Pres

COVERING PILES.—San Francisco, Cal.—The Harbor Board on Sept. 8 awarded contract for covering piles on the water front with reinforced concrete to the HEALY-TIBBITS CONSTRUCTION CO., at $1.73 per lin. ft.

TRACK MOTOR CAR.—Winnipeg, Man.—Bids will be received until Oct. 7 by the Board of Control, M. Peterson, Secy., Winnipeg, for the manufacture and delivery of a motor car, for use on standard gage railway track.

PIER.—St. Joseph de Sorel, Que.—Bids will be received until Oct. 17, by the Public Works Department, R. C. Desrochers, Secy., Ottawa, Ont., for the construction of a landing pier at St. Joseph de Sorel, Richilieu County, Que.

MONUMENT.—Vincennes, Ind.—The Commissioners of Knox County are preparing to ask for bids for the construction of a Soldiers and Sailors' Monument, to be placed on the Court House Square. The appropriation is $50,000.

REPAIRING STEAMER.—New York, N. Y.—Bids are asked by Michael J. Drummond, Comr. Pub. Charities, until 2.30 p. m., Oct. 4, for furnishing all the labor and materials required for repairing the steamboat "William H. Wickham."

MASONRY AND EMBANKMENT.—Philadelphia, Pa.—Bids are asked by the Chief Engineer, 520 Reading Terminal, Philadelphia, until noon, Oct. 11, for Contract 22, masonry and embankment between Somerset St. and Trenton Ave.

STEEL FOR GATES.—Detroit, Mich.—Bids are asked until 3 p. m., Oct. 24, by Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, for about 118 tons of steel, etc., for canal gates and other purposes, delivered at Sault Ste. Marie, Mich.

COMFORT STATION.—New York, N. Y.—Bids are asked by the Park Board until 3 p. m., Oct. 6, for all labor and materials for the erection and completion of a comfort station located at McKinley Park, Boro. of Brooklyn, City of New York.

EARTHWORK.—New Orleans, La.—Bids will be received unil Oct. 13 by Capt. Robt. R. Ralston, Corps Engrs., U. S. A., 3338 St. Charles Ave., New Orleans, for constructing about 445,000 cu. yds. of earthwork in the Lower Tensas Levee District.

PIER.—Boston, Mass.—Bids are asked until 11 a. m., Oct. 22, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for a pier between Piers 4 and 5 at U. S. Navy Yard, Boston. Specifications are on file at the office of Engineering News.

DREDGING.—Boston, Mass.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Oct. 15, for dredging at the U. S. Navy Yard, Boston. Specifications are on file at the office of Engineering News, New York.

DREDGING.—New York, N. Y.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Oct. 15, for dredging at the U. S. Navy Yard, New York. Specifications are on file at the office of Engineering News, New York.

DREDGING.—Hingham, Mass.—The contract for dredging 60,000 cu. yds. was awarded on Sept. 23 by the Massachusetts Harbor and Land Commission, Geo. E. Smith, Chn., to CHARLES M. COLE, of Fall River, Mass., at 26½ cts. The Bay State Dredging Co. bid 29¼ cts.

TUNNEL.—Duluth, Minn.—WICK O'CONNELL, of Houghton, Mich., has secured the contract to construct a tunnel, six miles from Duluth, for the Canadian Northern Ry. Co. The tunnel will go 530 ft. through a mountain. J. Irwin is Supt. Constr., C. & R., Winnipeg, Man.

LOCKERS.—Chicago, Ill.—Bids will be received until Oct. 19 by Lieut.-Col. Thomas Cruse, Ch. Q. M., Federal Bldg., Chicago, Ill., for furnishing and delivering f. o. b., at place of manufacture 3,000 metal wall lockers of the following sizes: 444 single, 750 double, 252 triple, 75 quadruple.

WALL.—Des Moines, Iowa.—GEORGE W. KOSS has secured contract for building a concrete wall along east bank of Des Moines River to contain about 710 cu. yds., and to be about 265 ft. long. He bid for broken stone $9.36 per cu. ft.; for gravel, $9.05 per cu. yd., and for piling, 69 cts. per lin. ft.

PARK.—Grosse Pointe, Mich.—Thos. Campau, Engr., Whitney Bldg., Detroit, Mich., is preparing plans for a park for the village of Grosse Point. William G. Diegal, Clerk. The proposition includes new walks, paving, shrubbery and trees. Bonds to the amount of $35,000 have been sold for this project.

TOWBOATS.—Kansas City, Mo.—Bids were recived by Major Edward H. Schulz, Corps Engrs., U. S. A., on Sept. 19, for constructing and delivering steel hull stern-wheel towboats, to cost, altogether, $104,205. The bid of the Dubuque Boiler Works, of Dubuque, Iowa, was recommended for acceptance.

*DREDGING.—Baltimore, Md.—Bids were received as follows by Col. Thomas L. Casey, Corps Engrs., U. S. A., Baltimore, until 1 p. m., Sept. 20, for dredging in Southwest Baltimore Harbor and Curtis Bay Channel, Md.: Maryland Dredging & Contracting Co., 10 cts; Sanford & Brooks, Baltimore, Md., 9.75 cts.

WHARF.—Los Angeles, Cal.—Bids will be received by the Board of Public Works, H. B. Ferris, Secy., until Oct. 14 for furnishing creosote piles and timber for a municipal wharf in Wilmington Harbor. Approximately 244 piles, from 30 to 52 ft. each, also 376 pieces of 3 × 12-in. × 16 ft. 10-in. timbers will be required.

*LOCK AND DAM.—Mobile, Ala.—Bids were opened on Sept. 7 at the office of Maj. H. Jervey, Corps Engrs., U. S. A., Mobile, for building lock and dam No. 17, Black Warrior River Ala., and lock tender's house. The only bid was received from and contract awarded to B. H. HARDAWAY, of Columbus, Ga., at $492,640.

CRANE AND RUNWAY.—St. Louis, Mo.—Bids will be received until Oct. 7 by the Board of Public Improvements for furnishing and installing at High Service Station No. 2 a 30-ton electric traveling crane, complete, with all appurtenances; also a steel runway and columns with all necessary connections. Maxime Reber is Pres.

EXTENSION OF DIKE.—Vallejo, Cal.—Bids are asked by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Nov. 5, for extension to dike at the U. S. Navy Yard, Mare Island, Cal. Specifications are on file at the office of Engineering News, New York.

CAR FERRY.—Detroit, Mich.—The Pere Marquette R. R. Co. has awarded the AMERICAN SHIPBUILDING CO., of Detroit, the contract for a car ferry steamer to take the place of No. 18, recently sunk in Lake Michigan. It will be 350 × 56 × 19¼ ft., with a capacity for 30 cars. It will cost $400,000.

*DREDGING.—Mobile, Ala.—Bids were received by Maj. H. Tervey, Corps Engrs., U. S. A., Mobile, on Sept. 23, for dredging about 3,000,000 cu. yds. in harbor at Mobile. The lowest bid was submitted by the Atlantic, Gulf & Pacific Co., Park Row Bldg., New York, at 8.4 cts. for river work and 5.9 cts. for bay work.

*BREAKWATER. — Portland, Me.—Bids were received as follows by Lieut.-Col. George A. Zinn, Corps Engrs., U. S. A., 537 Congress St., Portland, on Sept. 26, for the construction of a breakwater at Matinicus Harbor, Me.: P. H. Doyen Co., Portland, Me., $1.66 a ton; Rowe Brothers Co., Richmond, Me., $1.54 a ton.

PIERS, BULKHEADS.—New York, N. Y.—Six piers and two bulkheads will be built by the city in the Harlem River between 140th and 225th Sts., at the Ship Canal, on plans of the Dock Department adopted recently by the Sinking Fund Commission. On the same plans ten piers and extended bulkheads, with a basin, will be built between Sherman Creek and 201st St. Calvin W. Tompkins is Comr. of Docks and Ferries.

***DREDGING.—Savannah, Ga. — Bids are asked by Col. Dan C. Kingman, Corps Engrs., U. S. A., until noon, Oct. 27, for dredging in Brunswick Harbor, Ga.**

Bids are asked at same time and place for dredging in waterway betwen Savannah, Ga., and Fernandina, Fla., harbor at Darien, Ga., and Sapelo Harbor, Ga.

LEVEE.—Kansas City, Kan.—Bids will be received by the Commissioner of Kaw Valley Drainage District, W. H. Daniels, Pres., until Oct. 12 for the construction of about 662,800 cu. yds. of levee work, 118,800 sq. yds. of revetment paving, etc., and other work along bank of Kansas River; also bids for the purchase of $300,000 of bonds.

DITCH.—Morrisonville, Ill.—Bids will be received until Oct. 8 by John M. Becker, Town Clk., for cleaning out 12,925 lin. ft. open ditch, estimated to contain 25,705 cu. yd.; also furnishing material and laying 32,905 ft. of from 10 to 27-in. vitrified salt-glazed tiles, 2,940 ft. 8-in. good red or clay tiles, etc. J. W. Dappert is Engr., Taylorsville, Ill.

SOIL WORK, ETC.—Boston, Mass.—The contract was let on Sept. 21 to COLEMAN BROS., Boston, Mass., 15 Court Sq., Boston, at $40,210, for soil work and renovation on Boston Common. Other bidders were: Charles J. Jacobs Co., $44,173; James Driscoll & Son, $42,225; Rowe Contracting Co., $42,900; Thomas J. Kelly, $45,240; M. J. O'Hern, $59,490.

*DREDGING.—Portland, Me.—Bids were received as follows by Lieut.-Col. George A. Zinn, Portland, until noon, Sept. 24, for dredging in East Boothby Harbor, Me., (a) dredging 18,900 cu. yds., (b) boulders: John H. Gerrish, Boston, Mass., (a) 23.9 cts. per cu. yd., (b) $15 per ton; P. H. Doyen Co., Portland, Me., (a) 24.75 cts. per cu. yd., (b) $17 per ton.

TERMINAL BOXES, ETC.—Washington, D. C.—Bids are asked by the Chief Signal Officer, Washington, until 11 a. m., Oct. 3, for furnishing under proposal No. 479 blue stone terminal boxes, battery renewals, conduit, safety straps, tool belts, sounders, tubes, voltmeters, clamps, insulators, relays, zincs, etc. Capt. A. S. Cowan, Signal Corps, U. S. A., is Disbursing Officer.

BREAKWATER.—Loraine, Ohio.—The contract for extending the breakwaters at this port was awarded to the BREAKWATER CO., Hickox Bldg., Cleveland, Ohio, on Sept. 5, the contract price being aproximately $300,000. Patrick O'Brien is Mgr. The breakwater on the east will be extended 800 ft.; on the west the breakwater will be extended 1,500 ft. to a point near the shore.

DREDGING.—Savannah, Ga.—The following bids were received Sept. 8 by Col. Dan C. Kingman, Corps Engrs., U. S. A., for dredging in Club and Plantation Creeks, about 222,000 cu. yds.; (a(price per cu. yd., (b) totals: Savannah Dredging Co., Savannah, (a) 15.9 cts., (b) $34,980 (recommended for acceptance); Simons-Mayrant Co., Charleston, S. C., (a) 16.8 cts., (b) $36,960.

DREDGING.—Mexico.—The PEARSON CO., of London, England, has been awarded contract for dredging and deepening the harbor at Guaymas, Mexico. The harbor is to be deepened so that vessels of large tonnage can enter and discharge cargoes at the docks. A part of the land on one side of the bay is to be reclaimed, which the company is to receive in addition of $3,000,000 in gold for the work.

*RIPRAP, JETTIES.—Portland, Me.—Bids were received as follows by Lieut.-Col. George A. Zinn, Corps Engrs., U. S. A., 537 Congress St., Portland, Sept. 19, for the construction of riprap jetties in Saco River, Me.: (a) 11,000 tons of riprap in South Jetty, (b) 5,000 tons in breakwater, (c) 600 tons in Cow Island Jetty: P. H. Doyen Co., Portland, Me., (a) $1.08, (b) $1.18, (c) $1.08; Rowe Brothers Co., Richmond, Me., (a) 97 cts., (b) $1.47, (c) 97 cts..

MOORING EQUIPMENT.—Tompkinsville, N. Y.—Bids are asked until 2 p. m., Oct. 12, by the Light-House Inspector, Tompkinsville, N. Y., for furnishing and delivering moorings for vessels and buoys of the Light-House Establishment during the fiscal year ending June 30, 1911. The articles to be furnished embrace chain for light-vessels, chain for buoys, mushroom anchors, bridle chains, swive's for light-vessel chain, light-vessel and buoy shackles and buoy swivels.

***DREDGING.—Boston, Mass.—Bids were received as follows by Col. Frederic V. Abbot, Corps Engrs., U. S. A., Boston, on Sept. 26, for dredging in Hingham Harbor, Mass., (a) for dredging, scow measurement; (b) for removing boulders exceeding two cubic yards each; price given per cubic yard: Charles M. Cole, Fall River, Mass., (a) 37 cts., (b) $10; Eastern Dredging Co., Boston, Mass., (a) $39.7 cts., (b) $6; Bay State Dredging Co., Boston, Mass., (a) 41⅞ cts., (b) $10.**

MINE RESCUE STATIONS.—Illinois.—W. C. Zimmerman, Arch., 17 Van Buren St., Chicago, has awarded general contract to NOONAN BROS., of La Salle, Ill., for a mine rescue station at La Salle. Mr. Zimmerman also has awarded general contracts to the SCOTT MORELEDGE LUMBER CO., of Riverton, Ill., for two rescue stations at Springfield and Benton, Ill., to be of brick construction, with steam heating and plumbing, for the Mine Rescue Commissioners of Illinois.

*DREDGING.—Norfolk, Va.—Bids were received as follows on Sept. 21, by Lieut.-Col. Mason M. Patrick, Corps Engrs., U. S. A., for dredging in harbor at Norfolk: P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., 11.1 cts.; American Dredging Co., Philadelphia, Pa., 10.9 cts.; Maryland Dredging & Contracting Co., Fidelity Bldg., Baltimore, Md., 9.95 cts.; Coastwise Dredging Co., Norfolk, Va., 9.99 cts.; Norfolk Dredging Co., Norfolk, 11.3 cts. Amount available for the work, $175,000.

WALLS, ETC.—Jacksonville, Fla.—Bids were received as follows by Capt. Geo. K. Spalding, Corps Engrs., U. S. A., Sept. 7, for furnishing material and raising and building training walls, dams and shore protection in St. Johns River, Fla.: (a) 24,100 sq. yds. mattresses, (b) 53,600 cu. yds. oyster shells, (c) 19,050 cu. yds. stone, first-class, (d) 14,500 cu. yds. stone, second-class: Capt. R. G. Ross, (a) 65 cts., (b) 75 cts., (c) $2.50, (d) $2.65, total $141,915; Southern Dredging Co., Mobile, Ala., (a) 77 cts., (b) 95 cts., (c) and (d) $2.90, total $166,772.

COAL AND ASH HANDLING PLANT.—Baltimore, Md.—The following bids were received on Sept. 7 at the office of the Board of Awards for Contract 56, for furnishing and installing a coal and ash handling plant in the sewage pumping station: DIETZ ENGINEERING CO., 50 Church St., New York, N. Y., $17,360 (awarded contract); Mead-Morrison Mfg. Co., 149 Broadway, New York, N. Y., $19,800; Guarantee Construction Co., 140 Cedar St., New York, N. Y., $20,500; Conveying Machinery Co., 120 Liberty St., New York, N. Y., $29,179.

*RIPRAP.—Duluth, Minn.—Bids were received as follows on Sept. 23, by Lieut.-Col. Graham D. Fitch, Corps Engrs., U. S. A., for furnishing and placing granite riprap at the upper entrance to Portage Lake Canals (Keweenaw Waterway), Mich.: Thomas L. Durocher, Sault Ste. Marie, Mich., $2.49; Henry F. Key, Hancock, Mich., $1.92; Powell & Mitchell, Marquette, Mich., $1.89 (recommended for acceptance); John F. Fredin, Duluth, Minn., $2.13; Northern Dredge & Dock Co., Duluth, Minn., $2.01; Great Lakes Dredge & Dock Co., Chicago, Ill., $2.55.

CHEMICAL ENGINE.—Moose Jaw, Sask.—Bids will be received until 8.30 p. m., Oct. 10, for supplying one standard combination chemical and hose wagon with capacity 50 gallons chemical tank and 80 ft. of 2½-in. fire hose, or 40 gallons chemical tank and 1,000 ft. of 2½-in. fire house. Wagon to be fitted to carry one 20-ft. extension ladder on top. Bidders are asked to quote prices for either 2¼-in. steel or 2½-in. rubber tired Archibald wheels; also for one extra set of Archibald wheels, 1⅞-in. axle, 2¼-in. steel or rubber tires. W. H. Heal is City Clerk.

STONE.—New Haven, Conn.—Bids were received as follows Sept. 8 by Lieut.-Col. Harry Taylor, Corps Engrs., U. S. A., New London, for delivering stone in breakwaters: (1) New Haven breakwater, 80,000 tons, per ton; (2) Kelsey Point, 54,000 tons, per ton; Bouker Construction Co., (1) Class A stone, $1.50; (1) Class B stone, $1.25. Estate of John Beattie, (1) Class A, $1.15; (2) Class A, $1.14. E. S. Belden & Sons, (1) Class A, $1.33; (2) Class A, $1.10 for 60 per cent. granite and 90 cts. for brownstone. The Breakwater Co. and (2) Class A, $1.20; (1 and 2) Class B, $1.09.

DREDGING.—Norfolk, Va.—Bids were received as follows by Lieut.-Col. Mason M. Patrick, Corps Engrs., U. S. A., Sept. 22, for dredging south branch of Elizabeth River, Va.; (a) price bid per cubic yard, place measure; (b) quantity to be removed at price bid: Maryland Dredging & Contracting Co., Baltimore, Md., (a) 15.5 cts., (b) 580,645; Sanford & Brooks Co., Baltimore, Md., (a) 1.9 cts., (b) 756,303; Atlantic Gulf & Pacific Co., New York, N. Y., (a) 11.47 cts., (b) 784,656; Coastwise Dredging Co., Norfolk, Va., (a) 15.8 cts., (b) 569,920. Amount available, $90,000.

REPAIRING PIERS.—New York, N. Y.—The following bids were received by the Department of Docks and Ferries on Sept. 20 for furnishing all labor and materials required for prepraring for and repairing and painting the buildings on the recreation piers at the foot of East 24th St. and Market St., East Barrow St., North River, Boro. of Manhattan; North Second St., East River: L. Dornbush, $15,487; Sax & Inkelas, $15,523; Wm. Horne Co., $18,700; Grant Rohrer, $16,200; N. B. Smyth, Inc., $15,163; M. B. London, $15,790; Snare & Treist Co., $18,930.

*LOCKS AND DAMS.—Wheeling, W. Va.—Bids were received as follows on Sept. 16 by Capt. F. W. Alstaetter, Corps of Engrs., U. S. A., Wheeling, W. Va., for (a) constructing Lock and Dam No. 12, Ohio River, near Wheeling, and (b) constructing lock and guide walls, bear-trap weirs and Chanoine weir for Dam No. 19, Ohio River: Pneumatic Caisson Co., New York, (a) $908,492; (b) $649,739; T. A. Gillespie Co., Westinghouse Bldg., (a) $966,924; (b) $698,833; Ohio River Contract Co., Evansville, Ind., (a) $1,032,166; (b) $679,109; Sheridan-Kirk Contract Co., Cincinnati, Ohio, (a) $981,528; (b) $707,228.

*DREDGING.—Norfolk, Va.—Bids were received as follows by Lieut.-Col. Mason M. Patrick, Corps Engrs., U. S. A., Norfolk, on Sept. 19, for dredging Thimble Shoal; (a) amount available for dredging; (b) price bid per cubic yard, scow measure; (c) quantity to be removed at price bid: Maryland Dredging & Contracting Co., Baltimore, Md., (a) $215,000, (b) 13.3 cts., (c) 1,616,541 cu. yds.; Daly & Hannan Dredging Co., Ogdensburg, N. Y., (a) $215,000, (b) 20.4 cts., (c) 1,053,921 cu. yds.; Coastwise Dredging Co., Norfolk, Va., (a) $215,000, (b) 14.7 cts., (c) 1,462,585 cu. yds.; Morris & Cumings Dredging Co., New York, N. Y., (a) $215,000, (b) 17.9 cts., (c) 1,201,117 cu. yds.

LIGHT STATION.—San Francisco, Cal.—Plans are being prepared in the office of the Light-House Engineers, Monadnock Bldg., San Francisco, Cal., for a reinforced concrete light-house station and keeper's dwelling, to be erected on Anacapa Island, Southern California. The estimated cost is $100,000. Plans are also being drawn for a light-house signal station and buildings to be constructed at Santa Cruz at an estimated cost of $29,000. A brick, fog signal station and frame dwelling will be erected at Point Loma to cost $17,500. A frame station and dwelling, to cost $10,000, will be erected at Benecia. All work is to be advertised for bids, as soon as plans are completed.

LEVEE.—Chattanooga, Tenn. — Contracts for levee work amounting to about $40,000 were let on Sept. 8 by the Caddo Levee Board, which met in special session to open bids, which were called for at the last meeting on the recommendation of the State Engineer. The successful bidders were: Kentucky levee, 50,000 cu. yds., at 15.70 cts. a yard, to W. R. CAVETT; Missionary levee, 50,000 yds., at 15.70 cts. a yard F. T. CONSTANCE; Scott's Slough, 00 cu. yds., at 16.40 cts., to F. T. CON NCE; Shreve's Island, 50,000 cu. yds., 72 cts. a yard, to F. T. CONSTANCE; R Point, 16,000 yds., at 13 cts., to HALL TTIN; Sterling Bayou levee, 30,000 yds. 12.79 cts., to J. H. STINSON; Cash P 7,000 yds., at 15 cts. a yard, to W. G. T.

DREDGING.—Norfolk, Va.—Bids re-ceived as follows Sept. 20 by -Col. Mason M. Patrick, Corps Engrs., A., Norfolk, for dredging the channel New-port News; (a) price bid per yard, scow measure, (b) quantity to be ed at price bid: P. Sanford Ross, In ersey City, N. J., (a) 10.45 cts., (b) 956, Amer-ican Dredging Co., Philadelphia, (a) 10.4 cts., (b) 961,538; Coastwise dging Co., Norfolk, Va., (a) 9.9 cts., (b) 101; Morris & Cumings, Dredging Co., N York, N. Y., (a) 9.4 cts., (b) 1,063,829; rd & Brooks Co., Baltimore, Md., (a) 12 (b) 833,333; Norfolk Dredging Co., Nor Va., (a) 11 cts., (b) 909,090; Maryland dging & Contracting Co., Baltimore, Md 10.1 cts., (b) 990,099. Amount available, 0,000.

DREDGING.—Los Angeles, Cal.—B were received as follows on Sept. 10, Capt. W. P. Stokey, Corps Engrs., U. S. 723 Central Bldg., Los Angeles, Cal., for dredg-ing Los Angeles Harbor: San Francisco Bridge Co., 48 cts. per cu. yd. in Section A and 19.75 cts. per cu. yd. in Section B; American Dredging Co., Section A, cts., B, 21.9 cts., C, 12.75 cts.; Tacoma Dredging Co., A, 35 cts., B, 35 cts., C, 9.2 cts.; Western Dredging & Marine Construction Co., Section C, 12.4 cts. About 400,000 cu. yds. of material is to be removed in Section A. The Engineers' Office estimates the cost of dredging Sections A and B at $70,000 and $115,000, respectively. Section C will require the removal of 2,200,000 cu. yds. of material and $200,000 has been appropriated for the work. The bids will be referred to the Chief Engineer at Washington.

*DREDGING.—Philadelphia, Pa.—Bids were received as follows on Sept. 15, by Maj. Herbert Deakyne, Corps Engrs., U. S. A., Witherspoon Bldg., Philadelphia, for dredging in Delaware River, in bends of channel: (a) 1,910,000 cu. yds., (b) 250,000 cu. yds., (c) 730,000 cu. yds. (d) 200,000 cu. yds., (e) 910,000 cu. yds., (f) 330,000 cu. yds. Maryland Dredging and Contracting Co., Baltimore, Md., (a) 16 cts., (c) 17½ cts., (d) 18⅛ cts., (e) 13½ cts., (f) 14 cts.; Morris & Cummins Dredging Co., New York, N. Y., (e) and (f) 14 cts.: American Dredging Co., Philadelphia; (a) 13.3 cts., (b) 15 cts., (c) 17 cts., (d) 18 cts., (e) 12 cts., (f) 12½ cts.; Sanford & Brooks Co., Baltimore, Md., (e) 16 cts., (f) 16 cts.; Daly & Hannan Dredging Co., Ogdensburg, N. Y., (a) 22 cts., (b) 22 cts.; Coastwise Dredging Co., Norfolk, Va., (e) 12.4 cts., (f) 12.4 cts.

DRY DOCK.—Levis, Que.—The Dominion Dry Dock Co. has been negotiating with the Dominion Government to subsidize docks which they propose to build in several Canadian ports. Andrew A. Allan, Pres. of the Shipping Federation of Canada, Montreal, Que., was electer Pres. at a recent meeting. It was announced that the company would build its first dock at Quebec, probably early in 1911. The exact location of the dock will be at St. Joseph de Levis, it is stated. A permanent board of directors of the company was elected, as follows: Sir H. Montagu Allan, Andrew A. Allan, G. M. Bosworth, W. M. Macpherson and Capt. D. C. Newton. The following were present at the meeting: Sir Thomas Shaughnessy, Sir H. Montagu Allan, Sir Robert Perks, Andrew A. Allan, Mr. W. M. Macpherson (representing Harland & Wolff) William M. Dobell, George T. Davie and Capt. Newton. Capital, $4,000,000.

*DREDGING.—Washington, D. C.—Bids were received as follows by Lieut.-Col. W. C. Langfitt, Corps Engrs., U. S. A., 920 17th St., N. W., Washington, on Sept. 22, for dredging in Potomac and Anacostia Rivers near Washington: (a) Dredging Potomac River, 1,500,000 cu. yds.; (b) dredging Anacostia River, 1,500,000 cu. yds.; (c) combination of (a) and (b): Miner Engineering Co., Washington, D. C., (c) $246,000; P. Sanford Ross, Inc., Jersey City, N. J., (b) $136,500; Rickards Dredging Co., Philadelphia, Pa., $148,500; Maryland Dredging & Contracting Co., (c) $261,000; Atlantic Gulf & Pacific Co., New York, (a) $133,350; (b) $118,350; (c) $221,700; Sanford & Brooks Co., Baltimore, Md., (a) $127,500; (b) $155,500; (c) $234,750; American Dredging Co., Philadelphia, Pa., (a) $116,250; (b) $123,000; (c) $234,000.

***DREDGING.—Washington, D. C.—Bids were received as follows by Lieut.-Col. W. C. Langfitt, Corps Engrs., U. S. A., 920 17th St., N. W., Washington, on Sept. 22, for dredging in Potomac River at Alexandria and at Lower Cedar Point, Md., and in Upper Machadoc and Dymers Creeks, Va.: (a) Potomac River at Alexandria, Va., 300,000 cu. yds.; (b) Potomac River at Lower Cedar Point, Md., 41,000 cu. yds.; Upper Machodoc Creek, Va., 45,000 cu. yds. and Dymers Creek, Va., 26,000 cu. yds.; (c) combination of (a) and (b): Miner Engineering Co., Washington, D. C., (a) $48,000; (b) $22,720; (c) $67,360; John H. Miller, Washington, D. C., (b) $21,258; P. Sanford Ross, Inc., Jersey City, N. J., (c) $88,538; Maryland Dredging & Contracting Co., Baltimore, Md., (c) $62,841; Atlantic Gulf & Pacific Co., New York, (a) $60,000; (b) $40,300; (c) $70,470; Sanford & Brooks Co., Baltimore, (a) $35,250; (b) $24,300; (c) $58,800; American Dredging Co., (a) $35,700; (b) $26,650.**

U. S. POSSESSIONS.

GATE VALVE MACHINERY.—Panama.—Bids are asked by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer Isthmian Canal Comn., Washington, D. C., until 10.30 a. m., Oct. 1, for furnishing and erecting machinery to operate the Stoney Gate valves for controlling the main culverts and machinery to operate the cylindrical valves for controlling the lateral culverts of the canal locks.

GUN TURRETS.—Philippines.—Bids were received as follows on Sept. 20, by the Chief of Ordnance, War Dept., Washington, D. C., for the construction of two 14-in. gun turrets for the fortifications at El Fraile, Manila Harbor, P. I. The only bid received was that of the Newport News Shipbuilding & Dry Dock Co., Newport News, Va., at $360,000 for the two turrets, delivered, one in 13 months, both in 14 months.

SUPPLIES.—Panama.—Bids are asked by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., until 10.30 a. m., Oct. 17, for hose, packing, torpedoes, diaphragm pumps, hose strainers, valves, cocks, grease and oil cups, lubricators, engine gongs, automobile bells, flue ferrules, scales, garbage cans, machinists' clamps, flue cleaners, torches, ladders, squilgees, hoes, closet chain, night latches, rasps, screws, thumb tacks, steel letters, headlight glass, carbide, harness oil, drawing paper, cover paper, manila tags, etc.

LUMBER.—Panama.—Bids were received as follows on Sept. 20, by Capt. F. C. Boggs, Corps of Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn, Washington, D. C., for furnishing 1,080,000 ft. B. M. of lumber, long leaf yellow pine or Douglas fir: A. S. Bacon & Sons, Savannah, Ga., $25,920; G. S. Baxter & Co., 15 William St., New York, $23,166; G. Elias & Bro., Buffalo, N. Y., $24,795; Wm. D. Gill & Sons, Baltimore, Md., $26,892; D. L. Gillespie & Co., Pittsburg, Pa., $24,309, if awarded all, $24,039; J. K. Joice, 164 Dearborn St., Chicago, Ill., $24,390; Matalbany Lumber Co., Hammond, La., $27,180; S. E. Naylor, Gulfport, Miss., $23,625; W. C. Rodgers, Hattiesburg, Miss., $24,860; Salmen Brick & Lumber Co., New Orleans, La., $24,210; Southern Sawmill Co., New Orleans, La., $25,380; Bay Shore Lumber Co., Mobile, Ala., $22,474, if awarded all $21,805; Chicago Lumber & Coal Co., St. Louis, Mo., $22,050, if Item 16 is amended to 1⅝ × 11⅝, $21,420; Georgia Pine Co., Baltimore, Md., $25,812; W. R. Grace & Co., San Francisco, Cal., $22,248; National Lumber & Box Co., Seattle, Wash., $24,030.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

Bids open.		Noted in issue of
9-30	Power-house, Alto, Ga	9-15
9-30	Elec. light system, Miller, Ind.	9-29
9-30	Gas engine, etc., Medford, Wis.	9-29
10- 1	Lighting plant, Leamington, Ont.	9-29
10- 1*	Power plant, Annapolis, Md	8-25
10- 1	Power equipment, Hudson, N. Y.	9-15
10- 3	Boiler, Redfield, S. Dak	9-29
10- 5	Light fixtures, Wash., D. C.	9-29
10- 6	Elec. supplies, New York	9-29
10-10	Boiler plant, Philadelphia, Pa	9-29
10-10	Elec. equip., New York	9-29
10-11	Franchise, Los Angeles, Cal	9-29
10-11	Heating apparatus, Youngstown, Ohio	9-29
10-11	Elec. light plant, Yorktown, Sask.	9-29
10-19*	Light plant, Allentown, N. J.	9-29
11- 3	Elec. equipment, Canby, Minn.	9-29
11- 5	Gas house remodeling, Vallejo, Cal.	9-15

Bridges.

Bids open.		Noted in issue of
9-26	Bridge, Elizabeth, N. C.	9-15
9-26	Bridges, Terre Haute, Ind	9-22
9-26	Bridges, Colerain, Ohio	9-22
9-27	Bridges, Green Castle, Ind	9-22
9-27	Bridge, Prescott, Ariz	9-15
9-28	Bridge, Bala, Pa	9-22
9-28*	Bridges, Framingham, Mass	9-22
9-30	Bridges, Cincinnati, Ohio	9-22
10- 1	Bridges, Lawrence, Kan	9-22
10- 1	Bridges, Indianapolis, Ind	9-22
10- 1*	Superstructure, Quebec, Que	8-18
10- 1	Bridges, Dallas, Tex	9-15
10- 3	Bridges, Zanesville, Ohio	9-15
10- 3	Bridges, Crown Point, Ind	9-22
10- 3	Bridges, Shelbyville, Ind	9-22
10- 3	Bridges, Waukesho, Wis	9-22
10- 3	Bridges, Oswego, Kan	9-22
10- 3	Bridges, Winslow, Ariz	9-22
10- 3	Bridges, Holbrook, Ariz	9-22
10- 3	Bridges, Newport, Ind	9-22
10- 3	Bridge, Allentown, Pa	9-29
10- 3	Bridge, Stockton, Cal	9-29
10- 4	Bridges, Marianna, Ark	9-29
10- 4	Bridges, Pawnee City, Neb	9-29
10- 4	Bridges, Ukiah, Cal	9-29
10- 4	Bridges, Marianna, Ark	9-29
10- 4	Bridges, Lebanon, Ind	9-22
10- 4	Bridges, Marion, Ind	9-22
10- 4	Bridges, Rushville, Ind	9-22
10- 5	Bridges, Cleveland, Ohio	9-22
10- 6	Bridges, Martinsville, Ind	9-22
10- 6	Bridges, Boston, Mass	9-29
10- 6	Bridges, La Porte, Ind	9-29
10- 7	Bridges, Davenport, Wash	9-29
10- 8	Bridges, Indianapolis, Ind	9-29
10- 8	Bridges, Gothenburg, Neb	9-22
10-10	Bridges, Allentown, Pa	9-29
10-11	Bridges, Norristown, Pa	9-29
10-14	Bridges, Cincinnati, Ohio	9-29
10-15*	Viaduct plans, St. Joseph, Mo.	9-22
10-31	Bridge, Ukiah, Cal	9-29

Buildings.

Bids open.		Noted in issue of
10- 1	Buildings, Tacoma, Wash	8-25
10- 1	Hotel, Indianapolis, Ind.	9- 1
10- 1*	Freight house, El Paso, Tex. (Mfg. Pl.)	9- 1
10- 1	Building, New York, N. Y.	9-22
10- 1	Masonry, etc., St. Thomas, Ont.	9-29
10- 3	Schools, New York	9-22
10- 3*	School, Wash., D. C.	9-22
10- 4	Cottages, San Francisco, Cal.	9-29
10- 5	Laundry machinery, Norristown, Pa. (Mfg. Pl.)	9-29
10- 5	Bldg. alterations, New York	9-29
10- 5	Court-house, Oneida, S. Dak.	9-15
10- 6	Mason's materials, New York	9-29
10- 6	Garage, New York	9-29
10- 8*	Chimney, Washington, D. C.	9-29
10-10*	Post-office, Macon, Mo	9-15
10-10	School, New York, N. Y.	9-22
10-10	Engine-house repairs, New York.	9-29
10-11*	Repairs to quarters, Ft. Monroe, Va.	9-22
10-11	Stables, etc., Mt. Vernon, Ohio.	9-29
10-12	Storehouse, Ft Stevens, Ore.	9-29
10-13*	High school, East Orange, N. J.	9-29
10-13	School, Jersey City, N. J.	9-29
10-14	Hospital bldgs., New York	9-15
10-15	Quarters, Puget Sound, Wash.	9-15
10-15	Post-office, Fairbury, Neb.	9-22
10-17	Police station, Memphis, Tenn.	9-22
10-17*	Post-office, Canandaigua, N. Y.	9-15
10-17*	Storehouse, Rock Island, Ill.	9-29
10-24*	Post-office, Willmar, Minn.	9-22
10-24	Post-office, Troy, Ala.	9-22
10-28*	Quarters, Fort Hancock, N. J.	9-29
11- 1	Plans, Toronto, Ont.	6- 9
11- 5	Remodeling gas house, Mare Island, Cal.	9-15
11-14	Post-office, Pontiac, Mich.	9-22
11-30	Building, Phila., Pa.	9-29

Water-Works.

Bids open.		Noted in issue of
At once.	Water softening plant, Owensboro, Ky.	9-29
9-29	Pumping sta. work, Chicago, Ill.	9-29
9-29	Water mains, Middletown, O.	9-29
9-30	Water line, Olean, N. Y.	9-29
9-30	Reservoir, etc., Yuma, Ariz.	9-15
9-30	Water works materials, Alto, Ga.	9-15
9-30	Laying pipe, Orrville, Ohio	9-22
10- 1	Water-works, Dunkirk, Ohio	9-29
10- 1	Enlarging canal, Sanders, Mont.	9-29
10- 3	Water-works, Provo, Utah	9-29
10- 3	Pump, Tama, Iowa	9-29
10- 3	Water mains, Carthage, Ohio	9-29
10- 3	Well, Oconomowoc, Wis.	9-22
10- 4	Reservoir, Jacksonville, Fla.	9-22
10- 4	Water tank and mains, Alva, Okla.	9-29
10- 5	W.-Wks., Ocheyedan, Ia.	9-22
10- 5	Water-works, Bradley, S. Dak.	9-29
10- 5	Water mains, New York	9-29
10- 7	Water main, Salt Lake City, Utah	9-22
10-11	Laying pipe, Cleveland, Ohio	9-22
10-12	Pumps, Columbus, Ohio	9-29
10-17*	Water-works, Oroville, Wash.	9-22
10-18	I-beams, Belle Fourche, S. Dak.	9-29
10-24	Water main, Euclid, Ohio	9-29
10-29	Sub laterals, No. Yakima, Wash.	9-29
11- 1*	Reservoir, Bingham, N. Y.	9-22
11- 1*	Canals, etc., North Yakima, Wash	9-29
11-30*	Diversion channel, Portland, Ore.	9-29

Sewers.

Bids open.		Noted in issue of
9-30	Sewers, Cincinnati, Ohio	9-22
9-30	Sewage pumps, Prince Albert, Sask.	9-29
9-30	Sewers, Murphysboro, Ill.	9-29
9-30	Sewers, Richland Center, Wis.	9-29
9-30	Sewers, Duluth, Minn	9-29
10- 1	Sewers, Barrie, Ont	9-29
10- 1	Sewers, Clearwater, Fla	9-29
10- 1	Sewers, West View, Pa	9-15
10- 1	Sewers, etc., West View, Pa	8-18
10- 1	Sewer bonds, Phoenix, Ariz	9- 8
10- 3	Sewer plans, Brawley, Cal	9-22
10- 3	Sewers, Pipestone, Minn	9-22
10- 3	Sewers, Emmetsburg, Ia	9-22
10- 3	Sewers, Jefferson City, Mo	9-29
10- 3	Sewers, Muskegon, Mich	9-29
10- 3	Sewers, Haddonfield, N. J.	9-29
10- 3	Sewers, Lestershire, N. Y.	9-29
10- 3	Sewers, Massillon, Ohio	9-29
10- 3	Sewers, Boston, Mass	9-29
10- 4	Sewers, Belmar, N. J.	9-29
10- 4	Sewers, Philadelphia, Pa	9-29
10- 4	Sewers, Bloomfield, N. J.	9-29
10- 5	Sewers, Columbus, Ohio	9-29
10- 5	Sewers, Jeffersonville, Ky	9-22
10- 5	Sewers, New York, N. Y.	9-22
10- 6	Sewers, Oakland, Cal	9-29
10-11*	Sewers, Sonyea, N. Y.	9-29
10-12	Sewers, Norristown, Pa	9-29
10-17*	Storm sewer, Muskogee, Okla.	9-22
10-20*	Sewers, Lewistown, Ill.	9-29
11- 1	Sewers, Shelbyville, Ind	9-29

Streets and Roads.

Bids open.		Noted in issue of
9-30	Curbs, etc., Fort Brady, Mich	9-22
9-30	Grading, etc., Greenville, Ohio	9-22
9-30	Resurfacing, Cincinnati, Ohio	9-15
9-30	Roadway, Roselle Park, N. J.	9-29
9-30	State roads, Hartford, Conn	9-29
10- 1	Gravel road, Indiana	9-22
10- 1	Paving, Boston, Mass	9-15
10- 1	Gravel road, Indianapolis, Ind.	9-15
	N. J.	9-22
10- 1	Road, Moline, Ill	9-22
10- 1	Repairing road, Cleveland, O.	9-22
10- 3	Gravel roads, Indiana	9-22
10- 3	Macadam, Indiana	9-22
10- 3	Curbing, etc., Jefferson, Mo	9-22
10- 3	Grading, etc., Santa Barbara, Cal.	9-22
10- 3*	Grading, etc., Ridgefield Park,	
10- 3	Paving, Albany, N. Y.	9-29
10- 3*	Curbing, etc., Sidell, Ill.	9-29
10- 3	Paving, Toledo, Ohio	9-29
10- 4	Highway, Indiana	9-22
10- 4	Gravel roads, Indiana	9-22
10- 4	Stone roads, Indiana	9-22
10- 4	Rock roads, Indiana	9-22
10- 4	Macadam road, Indiana	9-22
10- 4	Gravel roads, Vincennes, Ind	9-22
10- 4	Road, Spencer, Ind	9-22
10- 4	Grading, etc., Cincinnati, O.	9-22
10- 4*	Paving, Jackson, Miss	9-29
10- 5	Gravel road, Indiana	9-22
10- 5*	Paving, etc., Birmingham, Ala.	9-22
10- 5	Gravel road, Kokomo, Ind	9-15
10- 5	Roads, etc., Fort Dade, Fla	9-15
10- 5	Grading, etc., New York	9-29
10- 5	Repaving, etc., New York	9-29
10- 6*	Highway, Orange, Tex	9-29
10- 6	Cement curbs, etc., New York	9-29
10- 6	Paving blocks, New York	9-29
10- 6	Rock roads, Indiana	9-22
10-10	Street impvts., Elberta, Ga	9-29
10-10	Roads, Pittsburg, Pa	9-29
10-12*	Gravel road, Freehold, N. J.	9-29
10-12	Curbing, etc., Olean, N. Y.	9-29
10-13	Roads, Vincennes, Ind	9-29
10-14	Road bonds, Saratoga Sprgs., N. Y.	9-29
10-15*	Highways, No. Tarrytown, N. Y.	9-29
10-15	Gravel road, Indiana	9-22
10-15*	Roads, etc., Fort Sill, Okla	9-22

Miscellaneous.

Bids open.		Noted in issue of
9-30	Ditch work, Murphysboro, Ill.	9-22
9-30*	Dredging, Duluth, Minn.	9- 8
9-30*	Dredging, New York	9-15
9-30*	Dredge machy., Montgomery, Ala.	9-15
10- 1*	Dredging, Savannah, Ga	9- 1
10- 1*	Dredging, Pike, Phila., Pa	9- 1
10- 1	Gate valve mach., Panama (U. S. Poss.)	9-29
10- 3	Terminal boxes, etc., Washington, D. C.	9-29
10- 3	Wharf, New Mills, N. B.	9-29
10- 3*	Dredging, New York	9- 8
10- 3	Breakwater, culvert, Shelbyville, Ind	9-15
10- 3*	Track material, Panama	9-22
10- 4	Wharf, Lakeport, Ont	9-15
10- 4	Ditches, Angleton, Tex	9-15
10- 4	Breakwater, Goderich, Ont	9-15
10- 4	Repairing steamer, New York	9-29
10- 4	Cables, New York	9-29
10- 6	Dikes, Seattle, Wash	9-29
10- 6	Comfort station, New York	9-29
10- 6	Drain, Ft. Dodge, Ia.	9-22
10- 7*	Ditches, Greenwood, Miss	9-22
10- 7*	Barges, flat boats, St. Louis, Mo.	9-15
10- 7	Track motor car, Winnipeg, Man.	9-29
10- 7	Crane and runway, St. Louis, Mo.	9-29
10- 7	Ditches, Greenwood, Miss	9-29
10- 8	Ditch, Morrisonville, Ill	9-29
10- 8*	Jetty, Galveston, Tex	9-15
10- 8	Storage tanks, Wash., D. C.	9-15
10- 8	Breakwater, Fairport, Ohio	9-22
10- 8	Sprinkler system, Boston, Mass.	9-22
10-10	Breakwater, Paspebiac, Que.	9-22
10-10*	Dredging, Jacksonville, Fla	9-15
10-10*	Dredging, Charleston, S. C.	9-15
10-10*	Dredging, Wilmington, N. C.	9-15
10-10	Chemical engine, Moose Jaw, Sask.	9-29
10-10	Retaining wall, Winnemucca, Neb.	9-29
10-11	Masonry, etc., Phila., Pa	9-29
10-12	Mooring equipment, Tompkinsville, N. Y.	9-29
10-12	Levee, Kansas City, Kan	9-29
10-12*	Dredging, etc., Chicago, Ill.	9-15
10-12	Ice pier, L'Assomption, Que	9-22
10-12	Wharf, Bic, Que	9-22
10-12	Drainage canals, Cleveland, Miss.	9-22
10-12	Dam trestles, Wheeling, W. Va.	9-22
10-13	Earthwork, New Orleans, La.	9-29
10-14	Wharf, Los Angeles, Cal	9-29
10-14	Dredging, Wilmington, N. C.	9-22
10-14*	Dredging, Wilmington, N. C.	9-15
10-15*	Subway plans, St. Joseph, Mo.	9-22
10-15	Breakwater, Cleveland, O.	9-22
10-15	Drainage ditch, levee, Pekin, Ill.	9- 8
10-15	Dredging, New York	9-29
10-15	Dredging, Boston, Mass	9-29
10-17	Pier, St. Joseph de Sorel, Que.	9-29
10-17	Supplies, Panama (U. S. Poss.)	9-29
10-17	Dredging, Boston, Mass	9-22
10-18*	Dredging, Portland, Me	9-22
10-18*	Dredging, Baltimore, Md	9-22
10-18*	Towboat, Wheeling, W. Va	9-22
10-19*	Embankment, Duluth, Minn	9-22
10-19*	Dredging, Boston, Mass	9-22
10-19	Lockers, Chicago, Ill	9-29
10-20*	Dredging, Norfolk, Va	9-29
10-20*	Dredging, Jacksonville, Fla	9-22
10-20*	Dredging, Wilmington, N. C.	9-22
10-20*	Subway system, etc., New York.	9-15
10-20*	Dredge, etc., Vicksburg, Miss.	8-25
10-20*	Dredging, Wash., D. C.	9-22
10-21*	Dredging, New York	9-22
10-22	Dry dock pumping equip, Washington, D. C.	9-22
10-22	Pier, Boston, Mass	9-29
10-24*	Steel for gates, Detroit, Mich.	9-29
10-27*	Dredging, Savannah, Ga	9-29
10-27*	Tug, New York	9-29
10-27	Collecting wks., Russia (Foreign)	9- 1
10-27*	Subway system, etc., New York.	9- 8
10-27*	Stone dam, Cincinnati, Ohio.	9-29
10-31	Lighthouse, buoy steamer, Victoria, B. C.	9- 8
10-31	Steamer, Victoria, B. C.	9-15
11- 5	Extension to dike, Vallejo, Cal.	9-29
11- 8	Torpedo boat destroyer, Washington, D. C.	9- 8
11-16	Incinerating plants (Garbage) San Francisco, Cal.	8-25

Examinations.

Bids open.		Noted in issue of
10- 1	Business Mgr., Winnipeg, Man.	9-22
10- 5	Inspector, Fort Crockett, Tex.	8-25
10- 5	Xylotomist, Washington, D. C.	8-25
10- 5	Electrical assistant, Wash., D. C.	9- 1
10- 5	Asst. Chem. Engr., Madison, Wis.	9-15
10-12	Draftsmen, Panama	9-22
10-13*	Naval Arch., Portland, Ore.	9-29
10-15	Foreman, Washington, D. C.	9-15
10-15	Supt. of construction, Albany, N. Y.	9-22
10-15	Inspector of Masonry, Albany, N. Y.	9-22
10-15	Highway Inspector, Albany, N. Y.	9-22
10-15	Asst. Steam Engr., Albany, N. Y.	9-22
10-15	Forester, Albany, N. Y.	9-22
10-19	Clerk-dftsman, Wash., D. C.	9-15
10-19	Chemist, Madison, Wis.	9-15
10-19	Engineer, Madison, Wis.	9-15
10-19	Chem. Engr., Madison, Wis.	9-15
10-19	Teacher, Haskell, Kan.	9-22
10-19	Laboratory helper, Wash., D. C.	9-22
10-19	Draftsman, Washington, D. C.	9-22
11- 2	Junior Chemist, Pittsburg, Pa.	9-29
11- 9	Mining Engr., Pittsburg, Pa.	9-29
11- 9	Testing Engr., Washington, D. C.	9-29

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids open.		Noted in issue of
9-30*	Dredging, Duluth, Minn (P & S)	9- 8
10- 1	Paving, Boston, Mass. (S.)	9-15
10- 1*	Power plant, Annapolis, Md. (S.)	8-25
10- 8	Storage tanks, Wash., D. C. (S.)	9-15
10- 8	Sprinkler system, Boston, Mass. (S.)	9-22
10-10*	Dredging, Jacksonville, Fla (S)	9-15
10-10*	Dredging, Charleston, S. C. (S)	9-15
10-12*	Dredging, Chicago, Ill. (S.)	9-15
10-15	Dredging, New York (S.)	9-22
10-15	Dredging, Boston, Mass. (S.)	9-22
10-15	Officers' quarters, Puget Sound, Wash. (S.)	9-15
10-17	Dredging, Boston, Mass. (S.)	9-22
10-18*	Dredging, Baltimore, Md. (S.)	9-22
10-18*	Dredging, Portland, Me. (S.)	9-22
10-19*	Dredging, Boston, Mass. (S.)	9-22
10-19*	Embankment, Duluth, Minn. (S.)	9-22
10-22	Pier, Boston, Mass. (S.)	9-29
10-22	Drydock pumping equip, Wash., D. C. (S)	9-22
11- 1*	Reservoir, Binghamton, N. Y. (P. & S.)	9-22
11- 5	Extension to dike, Villejo, Cal. (S.)	9-29
11- 5	Gas house remodeling, Mare Island, Cal. (S.)	9-15

EXAMINATIONS.

*NAVAL ARCHITECT.—Portland, Ore.—Bids will be received by A. L. Barbur, Auditor of the City of Portland, until 4 p. m., Oct. 13, for the services of a Naval Architect to superintend and inspect the construction of a steel fire boat for the City of Portland, to cost approximately $125,000, said Architect to furnish all drawings, plans, specifications and estimates relative thereto. The Fire Committee of the Executive Board of the City of Portland includes J. F. O'Shea, S. C. Pier and Samuel Connell.

JUNIOR CHEMIST.—Pittsburg, Pa.—The U. S. Civil Service Commission announces an examination on Nov. 2-3, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Junior Chemist (explosives) in the Bureau of Mines, Pittsburg, at salaries ranging from $1,020 to $1,500 a year, and in other brances of the service. Applicants must have reached their 21st but not their 30th birthday on the date of the examination. Application form 1312.

MINING ENGINEER.—Pittsburg, Pa.—The U. S. Civil Service Commission announces an examination on Nov. 9, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Mining Engineer in the Bureau of Mines, Pittsburg, at salaries ranging from $2,400 to $3,600 a year, and in other branches of the service. Applicants must have reached their twenty-first birthday, but not their fiftieth birthday, on the date of the examination. Application form 304 and special form. Applications must be filed prior to closing hour on Nov. 9.

TESTING ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Nov. 9, to secure eligibles from which to make certification to fill a vacancy in the position of Testing Engineer (male), Office of Public Roads, Department of Agriculture, at $150 a month, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. Applicants must show that they have received a degree from a reputable technical school. Applicants who fail to show that they have had sufficient education and training to entitle them to a rating of at least 70 in that subject will not be admitted to the examination. Age limit, 20 years or over on the date of the examination. Application form 1312. Applications must be filed prior to closing hour on Oct. 29.

JUNIOR COMPUTER.—Pittsburg, Pa.—The U. S. Civil Service Commission announces an examination on Nov. 9-10, to secure eligibles from which to make certification to fill two vacancies in the position of Junior Computer in the Bureau of Mines, Pittsburg, at salaries ranging from $1,020 to $1,500 a year, and vacancies requiring similar qualifications as they may occur unless it shall be decided in the interest of the service to fill either or both of the vacancies by reinstatement, transfer, or promotion. Two days will be required for this examination. Applicants must have reached their 21st, but not their 30th birthday on the date of the examination. This examination is open to all citizens of the United States who comply with the requirements. Application form 1312.

TRADE PUBLICATIONS.

STEAM-TURBINE ALTERNATORS. — General Electric Co., Schenectady. Bulletin 4756 Paper; 8 × 10½ ins.; pp. 2; illustrated.

This bulletin describes the ventilation of horizontal steam-turbine alternators, of over 750-KW. capacity, and outlines the foundation provisions which must be made where such units are to be used.

FLUE GAS INSTRUMENTS.—The Carb-Ox Co., Chicago, Ill.; 4 × 8½ ins.; pp. 16; illustrated.

In this little catalog several portable arrangements of the Hays gas-analysis apparatus are shown, together with additional portable apparatus for sampling flue gases to be analyzed in the instruments noted. This company also manufactures a CO_2 re-

CONVEYING MACHINERY.—Link-Belt Co., Philadelphia, Pa.; 6 × 9 ins.; pp. 42; illustrated.

Coal tipples, conveyors, car hauls and coal washeries are described and pictured in this booklet, which covers the latest practice of this company in its design of coal-handling plants. Most of the work is shown by photographs and drawings of plants which have been recently equipped.

CONCRETE MIXERS.—Chicago Concrete Machinery Co., Milwaukee, Wis. Stiff paper; 6 × 9 ins.; pp. 6; illustrated.

The Chicago Concrete Machinery Co. has recently put on the market a combination machine for the mixing and depositing of concrete in streets. It consists of an engine and mixer, on wheels, with a special hoisting loading device and a pipe or trough distributor.

WATER-SUPPLY.—Fidelity & Deposit Co. of Maryland., New York 6 × 9 ins.; pp. 11.

In an artistic pamphlet this company has described the Catskill scheme for supplying New York City with additional water. The publication by a bonding company of such a leaflet would seem peculiar, but it is explained by the single mention which the company makes of its association with this work through its seniority in the bonding participation.

PORTABLE POWER WOOD SAW.—American Saw Mill Machinery Co., Hackettstown, N. J. Paper; 9 × 6 ins.; pp. 2; illustrated.

A portable saw bench for contractors is described. It consists of a combined rip and cross-cut saw bench with a boring attachment, and jointer and dado heads. Power is supplied by a gasoline engine mounted on a frame under the saw table and belted to the mandrel. The weight of the complete apparatus is given as 960 lbs.

ELECTRIC-RAILWAY APPARATUS.—General Electric Co., Schenectady, N. Y. Bulletins 4730, 4746, 4761. Paper; 8 × 10½ ins.; illustrated.

The first of these bulletins is an elaborate brochure describing the design of a gasoline-electric street car designed to supplant the old horse car in a few cities where local conditions prevent the complete conversion to overhead or underground contact systems. The novel features of this car lie in the fully enclosed, automatic, engine-driven generator under the body, furnishing current for two 22-HP. motors. The control is apparently the same as in any city street car.

The second bulletin describes what is known as a "portable substation"—a piece of equipment which has come into use for electric roads to provide for temporary supplies of power in case of accidents, etc. The station consists of a specially arranged car containing a complete substation equipment. It may be conveniently moved to any section of the line requiring power temporarily; it is only necessary to connect to the high-tension transmission line and to the direct-current trolley or feeders, and to start the apparatus as in any substation.

A third bulletin describes the Sprague-General Electric "Type M" control for operating any combination of motor cars as a single unit from either end of any car of the train. This system is too well known to require comment, and the bulletin is issued to supersede previous bulletins, earlier editions of which have become exhausted.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 152.

SEWER SYSTEM.

Westfield, N. Y.

Bids will be received for Sewer System until Oct. 21st, 1910, at 8 o'clock P. M., at Trustees' Rooms. Village of Westfield, N. Y., for approximately 35,194 lineal feet of 8-in. pipe; 9,764 ft. 10-in.; 5,377 ft. 12-in.; 2,615 ft. 18-in.; 1,460 ft. 20-in.; 3,108 ft. 24-in. pipe; 143 manholes; 23 flush tanks; one disposal plant.

Certified check for 2% of amount of bid to accompany bid. Plans and specifications are on file with J. A. Riley, Village Clerk.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
Incorporated.

Sealed proposals for the construction of Section "B," Frankfort Avenue Sewer, Contract No. 74, will be received at the office of the Commissioners of Sewerage, 605 Equitable Building, Louisville, Ky., until 12 o'clock noon, October 21, 1910.

The work consists mainly of the construction of 1,870 feet of vitrified pipe drain, ranging in size from 12" to 24", and 1,870 feet of 8" sewer, about 1,870 feet of earth excavation, depth of cut 9 to 11 feet; about 350 cu. yds. of rock excavation and 15 cu. yds. of concrete masonry.

Sealed bids should be endorsed "Proposal for Section 'B,' Frankfort Avenue Sewer," and addressed to the Commissioners of Sewerage, Equitable Bldg., Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

Plans and specifications may be seen at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass., or at the office of the Commissioners of Sewerage.

P. L. ATHERTON, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

NAVAL ARCHITECT.

City of Portland, Oregon.

Sealed proposals will be received by the undersigned at the office of the Auditor of the City of Portland until Thursday, October 13th, 1910, at 4:00 o'clock P. M., for the services of a Naval Architect to superintend and inspect the construction of a steel fire boat for the City of Portland, to cost approximately $125,000.00, said Architect to furnish all drawings, plans, specifications and estimates relative thereto.

All proposals should be marked "Proposal for Naval Architect," and addressed to "A. L. Barbur, Auditor of the City of Portland."

The right to reject any and all bids is hereby reserved.

J. F. O'SHEA,
S. C. PIER,
SAM'L CONNELL,
Fire Committee of the Executive Board of the City of Portland, Oregon.
A. L. BARBUR,
Auditor of the City of Portland.
Sept. 29, 1910.

SEWER.

Asbury Park, N. J.

Sealed proposals will be received by the City of Asbury Park, N. J., until eight o'clock P. M. of Monday, October 10, 1910, for the building of fifty (50) manholes and twenty-nine (29) flush-tanks in connection with its sewer system, as per plans and specifications on file in the office of the Superintendent of the Department of Water and Sewe No. 711 Asbury Avenue, in said City.

The Common Council reserv e right to reject any or all bids. oposals should be marked "Bid for holes, etc.," and addressed to the signed.

WILLIAM C. BURR HS,
Clerk.

Sept. 27, 1910.

U. S. ENGINEER OFFIC incinnati, O., Sept. 27, 1910.—Seal posals for construction of one loose dam and shore protection in this R near foot of Sisters Island, will b eived here until 2 p. m., Oct. 27, and then publicly opened. Informat ap-plication. JOHN C. OAKES, M Engrs.

Situations Wan ed

BY TECHNICAL MAN, positio New York as secretary in office o vil engineer. Address "F. A. 13," gineering News, New York. 13-1t

Situations Open

WANTED—Young man with techni training and good experience as ass nt engineer for large pumping station Middle West. Give complete informa on with reference and least salary. Address "G. A. 13," Engineering News, New York. 13-2t

WANTED—Several experienced structural draftsmen. HINKLE IRON CO., 534 West 56th Street, New York. 13-1t

Miscellaneous Wants

WANTED—Transit, having horizontal and vertical circles; compass and level on telescope; good condition; reasonable. Address "H. B. 13," Engineering News, New York. 13-1t

WANTED
Work for an A No. 1
Land Pile Driver
and crew by the day, piece or foot. Address E. A. 13, Engineering News, New York.

ENGINEERING NEWS
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